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# commercial audio solutions product catalogue

#### Welcome to our new product catalogue... we hope you like it!

Commercial Audio Solutions Ltd is a UK based global distributor of commercial and professional audio products. We pride ourselves in offering competitive products with first class service.

We supply audio equipment for retail, office, factory & warehouse environments, schools and colleges as well as pubs, clubs, churches, conference venues, sports stadia and marine applications.

Products include amplification, loudspeakers, microphones, mixers and music sources for all public address, voice alarm and background music applications.

We stock products from the worlds leading audio manufacturers including:















We are a leading supplier of assistive hearing products including infra-red, induction loop, disabled refuge & counter audibility systems. Other products include portable systems for audio visual presentation / fitness training in addition to conferencing equipment for councils and business.

Please take a little time to peruse the pages of our catalogue. Hopefully you will find products that will match your requirements. We are constantly adding products to our portfolio, so if you don't see what you are looking for please give us a call; chances are we will be able

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## loudspeakers: ceiling speakers (for general announcements)

#### **BOSCH LHM0606/10**



The LHM 0606/10 is a general purpose 6 watt cost-effective ceiling loudspeaker.

- · Flush-mounting in ceiling cavity
- Simple power setting

driver	6	sound pressure level	84dB
power handling	9Watts	IP rating	-
impedance	100V	dimensions (Ø x d)	199 x 70 5mm
frequency respo	nse 80Hz - 18kHz	weight	620g
tappings	6/3/1 5Watts	colour	off white (RAL9010)

2.5

6Watts

100V

2.5

6Watts

100V

5 25

6Watts

150Hz - 20kHz

6/3/1 5Watts

150Hz - 20kHz

6/3/1 5Watts

sound pressure level

dimensions (Ø x d)

sound pressure level

dimensions (Ø x d)

sound pressure level

sound pressure level

dimensions (Ø x d)

IP rating

weight

colour

IP rating

weight

colour

IP rating

weigh

colour

86dB

550g

86dB

550a

92dB

1.3kg

94dB

88dB

IP55

960g

85dB

266 x 90mm

white (RAL9003)

104 x 95 5mm

chrome / gold

180mm x 114mm

white (RAL9003)

100 x 95 5mm

white / black

#### CES AUDIO SLC2060W/B



Miniature flush mount ceiling speaker available in white or black. driver

- Designed to look like ceiling spotlights Same size and fixing mechanism as spotlights
- Remarkable sound quality from small unit
- 2.5 full range driver unit
- 100mm diameter grille
- Designed for unobtrusive installation

#### CES AUDIO SLC2060C/G



Miniature flush mount ceiling speaker available in chrome

- or gold.
- Designed to look like ceiling spotlights Same size and fixing mechanism as spotlights
- Remarkable sound quality from small unit 2.5 full range driver unit
- Designed for unobtrusive installation

#### **CES AUDIO QCM5061**



Compact high quality bridge-mounting ceiling speaker

- Shares generic low profile grille design and low profile as entire QCM range

- Built-in ceiling tile cut out marker
- Galvanized steel construction
- IP rating impedance 100V dimensions (Ø x d) Fitted with 5 25 twin cone driver unit. Ideal for general purpose announcements and BGM 100Hz - 20kHz frequency response weight 6/3/1.5/0.75Watts colour

power handling

frequency response

impedance

driver

power handling

frequency response

impedance

tappings

driver

driver

power handling

frequency response

impedance

tappings

power handling

#### **CES AUDIO QCM6061**



- Industry standard high quality bridge-mounting ceiling speaker Shares generic low profile grille design and low profile as
- entire QCM range
   Fitted with 6.5 twin cone driver unit. Ideal for general purpose announcements and BGM
- Built-in ceiling tile cut out marker
- Galvanized steel construction
- 6.5 sound pressure leve power handling 6Watts IP rating 100V dimensions (Ø x d) 230 x 121mm impedance 1.4kg frequency response 100 - 20kHz weight white (RAL9003) 6/3/1 5/0 75 Watts tappings colour

6.5

6Watts

100V

150Hz - 20kHz

6/3/1.5/0.75Watts

#### **CES AUDIO SCS6061**



- Surface mount / bulkhead speaker
- Designed for use where no ceiling voids are present
- Can be wall-mounted
- Shares grille design with QCM range for uniformity when specifying
- Fitted with 6.5 twin cone driver unit. Ideal for general purpose announcements and BGM
- · Aesthetically pleasing spun aluminium housing
- Simple spring-fit system

### **CES AUDIO SCP4060**



- 4 Full range polypropylene driver
- Sealed rear enclosure with glanded cable tail
- Stainless steel mounting springs and exterior hardware
  Suitable for non-shedding cleanroom environments
- Suitable for applications where moisture is present
- · Finished in RAL9016 brilliant white
- tappings
- power handling impedance frequency response
  - 6Watts IP rating 100V 150Hz - 20kHz weight 6/3/1 5Watts colour

dimensions (Ø x d) 140 x 135mm white (RAL9016)

#### **APART CMM6**



Compact / discreet ceiling-mount speaker

- Modern and very compact (halogen-spotlight size) built-in speaker fitted with a 3 full range woofer.
- The loudspeaker is fitted with a high quality 100 Volt transformer 6 watt with several power tappings
- Moisture-proof Polypropylene driver • Easy to install quick mounting system (2 spring-clamps)
- driver power handling impedance

frequency response

6Watts 100V 120Hz - 180kHz

6/3/1 5Watts

- sound pressure leve IP rating dimensions (Ø x d)
- IPX4 105 x 76mm 600g weight white (RAL9010)

## **loudspeakers**: ceiling speakers (for general announcements)

driver

#### BOSCH LBC3951/11



Compact high quality ceiling speaker.

- Compact powerful speaker
- Very wide opening angle
- · Modern unobtrusive styling
- Splash waterproof IPX4 Complies with all international regulations
- tappings

driver sound pressure level IP ratina power handling 6Watts 100V impedance dimensions (Ø x d) frequency response 60Hz - 18kHz weiaht 6/3/1 5/0 75Watts coloui

88dB

690g

92dB

90dB

650a

92dB

1.9ka

270 x 114mm

white (RAL9003)

180 x 110mm

white (RAL9010)

160 x 95mm

white (RAL9010)

IPX4

#### **BOSCH LBC3086/41**



- 6 watt flush-mount ceiling speaker
- Suitable for speech and music reproduction
- Flush-mounting in ceiling cavity
- Easy to install
- · Optional certified firedome available
- Complies with all international regulations
- BS5839p8 compliant (with firedome) Firedome order code LBC3081/02
- IP rating power handling 10Watts impedance 100V dimensions (Ø x d) 270 x 114mm 70Hz - 20kHz 1.9ka frequency response weiaht 10/5/2 5/1 25Watts white (RAL9003) tappings

sound pressure level

#### **TOA PC1867**



- 6 watt 100 volt line flush mount ceiling speaker
- · Flush-mount 12cm speaker
- East installed speaker with spring catch mount
- Push in conector for quick wire hook up
- Bridging terminals for bridging of speaker lines · Aluminium net grill and baffle
- sound pressure leve driver IP ratina 6Watts power handling impedance 100V dimensions (Ø x d) 100Hz - 16kHz frequency response weiaht tappings 6/3/1.5/0.8Watts
- loudspeakers: ceiling loudspeakers (for music applications)

#### **CES AUDIO QCM 8101**



- Shares generic low profile grille design and low profile as entire QCM range
   Fitted with 8 twin cone driver unit. Ideal for music
- applications
- Excellent low frequency response
- Built-in ceiling tile cut out marker Galvanized steel construction
- sound pressure leve driver 10Watts IP ratina power handling impedance 100V dimensions (Ø x d) 70Hz - 20kHz frequency response weight tappings 10/5/2 5/1 25Watts coloui

#### **CES AUDIO QCM8200C**



- Shares generic low profile grille design and low profile as entire QCM range
- Fitted with 8 polypropylene driver and 2.5mm mylar tweeter with 13oz magnet
- Superb for all music applications Excellent low frequency response
- Galvanized steel construction
- driver sound pressure level 89dB 20Watts IP rating power handling 100V 270 x 114mm impedance dimensions (Ø x d) 60Hz - 14kHz 2.6kg frequency response weigh tappings 10/6/4/2Watts colour white (RAL9003)

### **COMMERCIAL AUDIO CAS810**



10 watt 100 volt line economical music quality ceiling speaker.

- Suitable for speech and music reproduction · Flush-mounting in ceiling cavity
- Easy to install
- · Simple power setting

driver	8	sound pressure level	91db
power handling	10Watts	IP rating	-
impedance	100 volt line	dimensions (Ø x d)	252 x 80mm
frequency response	60Hz - 14kHz	weight	1kg
tappings	10/6/4/2Watts	colour	white

#### **APART CMX20T**



- 20 watt 8 co-axial high quality music ceiling loudspeaker
- 100 volt and low impedance operation High performance Co-axial driver
- Extended bass response

- driver 5.25 20Watts power handling impedance 100v frequency response 60Hz - 20kHz 20/10/5/2.5Watts
- sound pressure leve 92dB IP rating dimensions (Ø x d) 237 x 170 x 65mm weight 1.3kg colou white

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## **loudspeakers**: ceiling loudspeakers (for music applications)

#### **APART CMR20T**



loudspeaker.

- Flush fit grille

Flush mount ABS backbox for CMR20T

#### sound pressure level 5 25 + 1 co-axial 92dB 20 watt co-axial high performance rectangular ceiling 20Watts IP ratina power handling • 100 volt impedance operation dimensions (h x w x d) $237 \times 170 \times 65 \text{ mm}$ 100v & 16ohm impedance High performance 5.25 +1 Co-axial driver frequency response 60Hz - 20kHz weiaht 1.3kg Moistureproof treated cone tappings 2.5/5/10/20Watts colour

#### APART CM1008



High performance low impedance ceiling speaker.

- 2-way built-in loudspeaker can be used with a standard HiFi or professional amplifier
- The loudspeaker has an 8 enforced woofer and 1 tweeter making the CM1008 very suitable for the distribution of music at a higher volume level
- The housing is made of high quality ABS. The woofer is made out of polypropylene making it moisture-proof
- · Easy to install due to its simple quick mounting system

driver	8 +1	Co-axial driver	sound pressure level	93dB
power handling		100Watts RMS	IP rating	IPX4
impedance		8ohm	dimensions (Ø x d)	244 x 90mm
frequency respor	nse	50Hz - 20kHz	weight	1.1kg
tappings		-	colour	white (RAL9010)

#### **APART CMS608**



High performance low impedance square ceiling speaker.

- · 2-way square flush-mount designer loudspeaker • High quality 61/2 woofer and 1 tweeter
- · HiFi-Pro sound quality. Suitable for music and speech
- Moisture proof design

driver	65 +1	Co-axial driver	sound pressure level	92dB
power handling		60Watts RMS	IP rating	IPX4
impedance		8ohm	dimensions (h x w x d)	201 x 201 x 75mm
frequency respo	onse	60Hz – 20kHz	weight	1.2kg
tappings		-	colour	white (RAL9010)

#### **APART CMS20T**



High performance square ceiling speaker c/w transformer.

- 2-way sauare flush-mount designer loudspeaker 100 volt line version of CM\$608
- High quality 6 ½ woofer and 1 tweeter
- HiFi-Pro sound quality. Suitable for music and speech
- Moisture proof design

driver	65 +1 Co-axial driver	sound pressure level	92dB
power handling	20W @ 100V & 60W 16ohm	IP rating	IPX4
impedance	100volt line and 16ohm	dimensions (h x w x d)	201 x 201 x 75mm
frequency respon	se 60Hz – 20kHz	weight	1.2kg
tappings	20/10/5/2 5Watts	colour	white (RAL9010)

sound pressure leve

IP ratina

#### **SOUNDTUBE CM500i**



Famous Soundtube high performance wide dispersion ceiling speakers. 5 25 Coaxial Flush Mount Ceiling

- Patented BroadBeam® dispersion technology delivers fuller more area with full-frequency sound
- Installation hardware including hanging cables snap-link fast-adjusting cable clamps and wire ties is included.
- New speed-tap power settings save customers time and money on ordering inventory tracking installation and
- system tuning
   25 70 7 and 100 Volt transformer options with voice
- coil/80hm direct High-frequency driver protection with automatic reset
- Durable construction powder-coated grille and terminal weather boot allow for indoor or outdoor Sonically matched with SoundTube's new CMi (in applications requiring combinations of hanging &

power naming con c		ii raiii ig	
impedance	100V and 8ohm	dimensions (Ø x d)	271 x 197mm
frequency response	55Hz – 20kHz	weight	3.4kg
tappings	33/17/9/Watts	colour	white (RAL9010)

5 25 co-axial

nower handling 33W @ 100v & 75W @ 80hm

#### **SOUNDTUBE CMEZII**



Famous Soundtube high performance wide dispersion ceiling speakers. 8 Coaxial Flush Mount Ceiling Speaker

- SnapCam<sup>™</sup> four-point spring-loaded mounting system ensures rapid installation
- Adaptable to ceiling thicknesses ranging from ½
- 7 3 litre steel backcan extends frequency range and delivers high-quality sound
- Integrated backcan with a 6-position tap switch for 25/70.7/100 Volt and voice coil / 8 Ohm bypass
  Includes tile bridge and UL listed flex conduit clamp
- optional pre-construction bracket
- UL1480 & 2043 approved

mounted speakers

driver	8 co-axial	sound pressure level	93dB
power handling	20W @ 100v & 80W @ 80hm	IP rating	-
impedance	100V and 8ohm	dimensions (Ø x d)	274mm x 191mm
frequency respon	se 54Hz – 20kHz	weight	3.5kg
tappings	20/10/5/2 5watt	colour	White (RAL9010)

## **loudspeakers**: ceiling loudspeakers (for music applications)

power handling

frequency response

impedance

tappings

#### RCF PL80A



6 watt 100 volt line flush mounted ceiling speaker designed for distributed sound reproduction in large spaces with low to medium height ceilings.

- Body in RAL 9003 white plastic Multi-tapped line transformer included for constant voltage systems
- Twin-cone wide band low distortion Ø 200mm driver
- Quick fitting system
- Flame-retardant white plastic body meets UL-94-5VA standards

driver	8 dual cone	sound pressure level	93dB
power handling	6 Watts	IP rating	-
impedance	100V	dimensions (Ø x d)	266 x 100mm
frequency respons	e 40Hz – 18kHz	weight	1.7kg
tappings	6/3/1 5/0 8/0.4Watts	colour	white (RAL9003)

10Watts

10/5/2 5/1 25Watts colour

40Hz - 20kHz weight

8 co-axial sound pressure level

IP rating

100V dimensions (Ø x d)

#### RCF PL81A



10 watt 100 volt line / 40 watt 8 ohm flush mounted ceiling speaker driver with 8 driver and coaxial tweeter.

The PL 81/A provides a wider anale of coverage for large spaces with medium to high ceilings. The PL 81/A can support up to 40 W power and if used without transformer can generate a sound pressure of 113 dB.

- Multi-tapped line transformer included for constant
- Co-axial wide band low distortion Ø 200 mm
- · Quick fitting system
- Flame-retardant white plastic body meets UL-94-5VA standards

#### **CES AUDIO CSB3150**



- Foreground and sound re-inforcement ceiling speaker
- Sealed and ported enclosure for extended bass
- Waveguide dome tweeter for accurate high frequency dispersion
- Discreet rotary power selector
- · 100 volt and 80hm Fully rated for air handling spaces
- driver 6.5 + 0.75 waveguide dome tweeter sound pressure level power handling 30W @100v /60W @ 8ohm IP rating impedance 100V and 8ohm dimensions (Ø x d) 85Hz - 20kHz frequency response weight 30/15/7.5/3.75Watts

**CES AUDIO CSB6301** 



- Foreground and sound re-inforcement ceiling speaker

  • Sealed and ported enclosure for extended bass
- response Very high quality Co-axial speaker system
- · Waveguide dome tweeter for accurate high frequency dispersion

  • Discreet rotary power selector
- 100 volt and 8ohm
- · Fully rated for air handling spaces

driver 6.5 + 0.75	waveguide dome tweeter	sound pressure level	89dE
power handling	30 W @100v /60W @ 8ohm	IP rating	
impedance	100V and 8ohm	dimensions (Ø x d)	250 x 205mm
frequency response	75Hz – 20kHz	weight	3.12kg
tappings	30/15/7.5/3.75Watts	colour	white (RAL9016

...for further ceiling products, please see the pro sound section

## **loudspeakers**: wall cabinets (for general announcements)

#### CES AUDIO WAS6061 & V



High quality rugged ABS wall cabinet. V model with built-in volume control.

- Secure fix system (using hex. socket screw)
- Fast installation of face plate
- Built in volume control (V model) Rugged ABS with self-extinguishing UL94V0 cabinet
- 6 watt 100 & 70 volt line
- · Ideal for background music as well as public address
- Finished in white (RAL 9016)

driver	6 dual cone	sound pressure level	95dB
power handling	6Watts	IP rating	-
impedance	100volt	dimensions (h x w x d)	210 x 210 x 85mm
frequency response	160Hz – 20kHz	weight	1.3kg
tappings	6/3/1.5/0.75Watts	colour	white (RAL9016)

#### **CES AUDIO WSP5061**



Sleek Designer style wall speaker with no visable fixings 5.25 twin cone driver unit for high quality sound reproduction

- Bass reflex designRugged ABS with self-extinguishing UL94V0 cabinet
- 6 watt 100 & 70 volt line Ideal for background music as well as public address

driver	5.25 dual cone	sound pressure level	93dB
power handling	6Watts	IP rating	-
impedance	100volt	dimensions (h x w x d)	332 x 210 x 82mm
frequency response	160Hz – 20kHz	weight	1.46kg
tappings	6/3/1.5/0 75Watts	colour	white (RAL9016)

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97dB

1.7kg

89dB

3.12ka

250 x 205mm

white (RAL9016)

266 x 100mm

white (RAL9003)

## **loudspeakers**: wall cabinets (for general announcements)

### BOSCH LB1UW06 (L) & (D)



General-purpose cost-effective 100volt line loudspeaker for indoor use.

- Robust solid MDF (medium density fiber board) enclosure covered with durable easy-to-clean vinyl
- · ABS front covered with fine woven cloth in matching
- Keyhole wall mounting
- Angled front baffle for better sound
- Finished in black D or white L

#### BOSCH LB1UW06Vx (L) & (D)



General-purpose cost-effective 100volt line loudspeaker with volume control for indoor use.

- Robust solid MDF (medium density fiber board) enclosure covered with durable easy-to-clean vinyl
- ABS front covered with fine woven cloth in matching
- · Angled front baffle for better sound
- Finished in black D or white L

### BOSCH LB1CW06 (L) & (D)



Corner-mounting general-purpose cost-effective 100 volt driver line loudspeaker for indoor use.

- Corner-mounting
- Robust solid MDF (medium density fiber board) enclosure covered with durable easy-to-clean vinyl
- ABS front covered with fine woven cloth in matching Mounting brackets supplied

#### **APART SMP5T**



- Rectangular 6 watt 100 volt ABS cabinet speaker
- 5.25 dual paper cone woofer Clear sound reproduction suitable for BGM & microphone calls
- Power tappings at 1.5 3 & 6 watts
- · Easy 2 stage installation

driver	5 25 du	ual cone	sound pressure level	90dE
power hand	ling	6Watts	IP rating	IP44
impedance		100v	dimensions (h x w x d)	223 x 168 x 96mm
frequency re	esponse 70Hz	z – 18kHz	weight	1 7kg
tappings	6/3/	1.5Watts	colour	white

5.25

6Watts

100v

5.25

6Watts

5 25

6Watts

180Hz - 20kHz

6/3/1 5Watts

100v

100v

6/3/1.5Watts

power handling

power handling

impedance

power handling

frequency response

impedance

tappings

frequency response 180Hz - 20kHz

frequency response 180Hz - 20kHz

impedance

tappings

sound pressure level

sound pressure level

dimensions (h x w x d) 243 x 151 x 141/119mm

colour white (L) (RAL9010) - black (D) (RAL9004)

dimensions (h x w x d) 243 x 151 x 141/119mm

colour white (L) (RAL9010) - black (D) (RAL9004)

colour white (RAL9010/RAL7044) - black (RAL9004)

IP ratina

weight

IP rating

weiaht

sound pressure level

dimensions (h x w x d)

IP rating

#### **APART SMP20T**



- 5.25 woofer with moisture-proof with paper cone 20 watt 100 volt line / 40 watt 16 ohm
- Power tappings at 2.5 5 10 & 20 watts
  Easy 2 stage installation

driver 5 25 w	oofer and 1 tweeter	sound pressure level	92dB
power handling	20Watts	IP rating	IP44
impedance	100V & 16ohm	dimensions (h x w x d)	223 x 168 x 96mm
frequency response	60Hz – 20kHz	weight	1.9kg
tappings	20/10/5/2.5 watts	colour	white

## loudspeakers: wall cabinets (for music applications)

### **APART SDQ3T**



Compact and discreet desig loudspeaker with overload a mounting bracket and availa

- · 2-way HiFi ABS sealed box
- 3.2 driver
- Auto-Reset Guard Protection
- Ideal for background music
- Supplied as pair

ign 16 anm / 100 volt line protection. Supplied with a wall ilable in black white or silver. x	ariver	3 2	sound pressure level	86QB
	power handling	35Watts	IP rating	IP50
	impedance	100V & 16Ohm	dimensions (h x w x d)	152 x 105 x 104mm
	frequency response	90Hz - 20kHz	weight	850g
tion system sic/ retail applications	tappings	6/3/1.5Watts	colour	white / black / silver

#### **APART SDQ5T**



Discreet design 16 ohm / 100 volt line loudspeaker with overload protection. Supplied with a wall mounting bracket and available in black white or silver.

- 2-way HiFi ABS sealed box
- 5.25 driver
- Auto-Reset Guard Protection system Ideal for background music/ retail applications
- · Supplied as pair

5.25 sound pressure level 90dB 70Watts IP50 power handling IP ratina 100V & 160hm 244 x 179 x 154mm dimensions (h x w x d) 70Hz - 20kHz frequency response weight 2.35kg 30/15/6/3Watts colour white / black / silver tappings

## **loudspeakers**: wall cabinets (for music applications)

#### **APART SDQ8T**

91dR

91dB

90dB

240 x 151 x 138mm



Powerful 16 ohm / 100 volt line loudspeaker with overload protection. Supplied with a wall mounting bracket and available in black white or silver.

- · 2-way HiFi ABS bass reflex cabinet
- 8 driver with 1.2 neodynium tweeter
- Auto-Reset Guard Protection system
- Ideal for mid and foreground music applications
- · Supplied as pair

driver	8	sound pressure level (1w	/1m) 94dB
power handling	140Watts	IP rating	IP40
impedance	100v	dimensions (h x w x d)	375 x 280 x 240mm
frequency response	45Hz - 20kHz	weight	5.45kg
tappings	60/30/15/6Watts	colour	white / black

#### **APART MASK4T**



Dual impedance compact BGM cabinet. The APart MASK BGM loudspeakers have been designed for the contractor market and have a stylish and innovative design. Can be used as standalone or as part of a sub woofer set.

- 2-way ABS sealed cabinet
- 100volt and 16ohm Woofer: 4.2 HD Type
- Tweeter: 1 HD silk dome on Varithroat horn
- Intelli-mount bracket
- Auto-Reset 3-step Protection
- IP64 for outdoor/weather-resitant applications

power handling	50Watts	IP rating	IP64
impedance	100V & 16ohm	dimensions (h x w x d)	223 x 129 x 130mm
frequency response	80Hz – 20kHz	weight	2kg
tappings	20/10/5/2 5Watts	colour	white / black

sound pressure level

89dB

#### **APART MASK6 & 6T**



High quality 6 bass/mid driver with 80hm operation. The APart MASK BGM loudspeakers have been designed for the contractor market and have a stylish and innovative design. Can be used as standalone or as part of a sub woofer set.

- 2-way ABS sealed cabinet
- 80hm low impedance operation
   Woofer: 6.5 HD Type
- Tweeter: 1 HD silk dome on Varithroat horn
- Intelli-mount bracket
- Auto-Reset 3-step Protection
- IP64 for outdoor/weather-resitant applications
- 100volt line and 16ohm version (MASK 6T)

driver	6.5	sound pressure level	92dB
power handling	150Watts	IP rating	IP64
impedance	8ohm	dimensions (h x w x d)	315 x 175 x 195mm
frequency response	65Hz – 20kHz	weight	
tappings	60/30/15/6Watts	MASK6 MASK6T	3.4kg 3.95kg
		colour	white / black

#### **APART MASK8**



The Apart MASK8 has been designed for the contractor market from background to dance level music. The wooden delta cabinet gives the MASK8 a unique yet inconspicuous

- Powerful 8 coated woofer
- Ferro-fluid cooled dome tweeter with wave guide horn • 8ohm low impedance operation
- Almost studio monitor quality Can be used full-range or with subs (see below)
- Auto-Reset 3-step Protection
- · Supplied with metal 'U' bracket • Includes thread-mounts for flying / rigging

driver	8	sound pressure level	93dB
power handling	200Watts	IP rating	IP40
impedance	8ohm	dimensions (h x w x d)	411 x 250 x 250mm
frequency response	60Hz – 20kHz	weight	8.1kg
tappings	-	colour	white / black

10 sound pressure leve

#### **APART SUB165**



High quality active subwoofer giving incredible performance for its diminutive size

- · Line input and high level speaker input (from other amp) Built-in 100 watt amplifier

- Speaker outputs for satellite speakers · Variable cross-ove

power	handling	100Watts RMS
imped	ance	Built-in amplifier
freque	ncy response	30Hz – 180kHz
tappin	ıgs	-

IP ratina dimensions (h x w x d) 362 x 261 x 405mm weight 1 27kg colour black

#### **APART SUB2200**



Compact high quality passive bandpass subwoofer with 10 dual voice coil woofer

- Compact for easy installation • 10 dual voice coil driver
- High bandpass filter (150Hz) built-in • 2 x 4ohm inputs Auto reset protection built-in Ideal for use with MASK6 speakers

power handling	2 x 150Watts	IP rating
impedance	2 x 40hm	dimensions (h x w x d)
frequency response	150Hz – 45kHz	weight
tappings	-	colour

#### **APART SUB2400**



Tandem Driven passive bandpass subwoofer for incredible deep and loud kick-bass sound.

- Two band pass chambers both with 10 dual coil drivers Push/pull technology for compact yet punchy bass • 4 or 160hm operation
- Compact for easy installation • Ideal for MASK 6 or 8 speakers

2 x 10 sound pressure level 2 x 300Watts IP rating power handling impedance 150Hz - 45kHz frequency response weight tappings colour

dimensions (h x w x d) 700 x 345 x 352mm 30kg white / black

sales@commercialaudiosolutions.com

20kg

black

99dB

## **loudspeakers**: wall cabinets (for music applications)

#### **COMMERCIAL AUDIO CAT3150**



Compact elegant ABS music speaker ideal for background music in bars/shops etc.

- Attractive trapezoidal cabinet for improved directivity and corner mounting
- · 2 way bass reflex design
- Front ported for wall mounting
- 15 watts 100 volt line / 8 ohm
- · Constructed from high impact ABS • Multi impedance settings via rotary control
- 'U' mounting bracket included

### CES AUDIO CAL5300U & WU



Compact vet powerful cabinet loudspeak from BGM to foreground music. Used in ba churches etc. Will perform as well as the bi expensive offerings.

- Attractive trapezoidal cabinet design for improdirectivity and versatile mounting
   Very high quality 2-way speaker system with 5
- polypropylene bass / mid cone & 10-ounce magnet + mylar laminate dome tweeter
- 30w transformer & Powerful  $8\Omega$  operation
- U mount bracket included as a standard accessory

ker. Anything	driver	5	sound pressure level	89dB
ars restaurants pig manufacturers	power handling	30Watts	IP rating	-
	impedance	100V & 80hm	dimensions (h x w x d)	189 x 241 x 175mm
or improved	frequency respon	se 75Hz – 25kHz	weight	2.66kg
	tappinas	30/15/7.5/3.75Watts	colour	black (RAI 9005)U

35

100V

15Watts

130Hz - 20kHz

15/7.5/3.75/1.9Watts

nower handling

frequency response

impedance

tappings

sound pressure leve

dimensions (h x w x d)

135 x 200 x 110mm

white (RAL9016) - black (RAL9005)

or brilliant white (RAL 9016)WU

18kg

IP ratina

weight

colour

#### **CES AUDIO WSP4200**



2 way high power Designer style wall speaker with no visable fixings.

- High quality 2 way 4 Driver + 1 tweeter
- · Bass reflex design
- Rugged ABS with self-extinguishing UL94V0 cabinet
- 20 watt 100 & 70 volt line
- · Ideal for music applications as well as public address

driver	4	sound pressure level	86dB
power handling	20Watts	IP rating	-
impedance	100V	dimensions (h x w x d)	332 x 210 x 82mm
frequency response	100Hz – 25kHz	weight	1.95kg
tappings	20/10/5/2.5Watts	colour	white (RAL9016)

colour

#### WHARFEDALE PROGRA



- Heavily damped miner
- Overload protected
- Dual cone driver with c

AMME1 &1LT	
conic compact cabinet speaker for background music	driver
applications.	power Handling

- Supplied with mounting hardware
- 100 volt line version (1LT)

et speaker for background music	driver	5	sound pressure level	87dB
	power Handling	30Watts	IP rating	-
eral loaded polypropylene driver	impedance	8ohm (PG1) 100v (LT)	dimensions (h x w x d)	140 x 160 x 130mm
copper clad magnet for optimum	frequency Response	100Hz – 15kHz	weight	
na hardware	tappings (1LT version)	10/5/2 5/0 6Watts	programme1 programme1LT	1.1kg 1.4kg

#### WHARFEDALE PROGRAMME30D & 30DT





Based on famous Wharfedale Diamond. Designed for commercial applications.

- MDF Cabinet designed for smooth extended bass
- T.O.P® Tweeter overload protection · Supplied with mounting bracket
- Supplied as pair 100 volt line version (30DT)

power handling	100Watt
impedance	8ohm (PG30) 100v (DT
frequency response	50Hz - 20kH:
tappings (30DT)	10/5/2.5/1.25Watt

sound pressure level	86dB
IP rating	-
dimensions (h x w x d)	242 x 186 x 203mm
weight programme30D programme30DT colour	4 2kg 4 6kg black ash

white / black

#### WHARFEDALE PROGRAMME50 & 50T



The Programme 50 installation loudspeakers are two-way ported 80 watt 8 ohm loudspeakers with 5 5 woofer & a 3/4 titanium dome tweeter providing a wide frequency range coupled with high power handling in an attractively styled acoustically efficient enclosure.

- Trapezoidal enclosures for compact arrays and broad coverage angles
- Protech! High Frequency Driver Overload Protection
- · Bracket and built in rigging points for horizontal or vertical
- 100 volt line version available as Programme50T.

driver	55 woofer + 3/4 tweeter	sound pressure level	86dB
power handling	80Watts	IP rating	-
impedance	8ohms (PG50) 100v (50T)	dimensions (h x w x d)	305.5 x 196 x 203mm
frequency response	90Hz – 20kHz	weight	7.51
tappings (50T version	on) 60/30/15/7.5watts	programme 50 programme 50T	7 5kg 9kg
		colour	white / black

#### WHARFEDALE PROGRAMME52 & 52T



The Programme 52 installation loudspeakers are three-way ported 100 watt 8 ohm loudspeaker with 2 x 5.5 woofers & a 3/4 titanium dome tweeter providing a wide frequency range coupled with high power handling in an attractively styled acoustically efficient enclosure.

- Trapezoidal enclosures for compact arrays and broad coverage angles Protech! High Frequency Driver Overload Protection
- Music / voice tone control switch
- · Bracket and built in rigging points for horizontal or vertical
- 100 volt line version available as Programme52T.

driver	2 x 5 5	woofer + 3/4 tweeter	sound pressure level	88dB
ower handling		100Watts	IP rating	-
mpedance	8oł	nms (PG52) 100v (52T)	dimensions (h x w x d)	500 x 196 x 203mm
requency respo appings (52T ve		60Hz – 20kHz 80/40/20/10watts	weight programme 52 programme 52T	10 5kg 12 5kg
			colour	white / black

call us now on: +44 (0) 1663 767 888

## **loudspeakers**: wall cabinets (for music applications)

#### WHARFEDALE PROGRAMME60 & 60T



The Programme 60 installation loudspeakers are three-way ported 150 watt 8 ohm loudspeakers with 2x 65 woofers & a 1 titanium compression driver providing a wide frequency range coupled with high power handling in an attractively styled acoustically efficient enclosure.

powe

frequ

tappi

- Black or white painted finish
- High quality elegant & versatile solution for a variety of applications
- Trapezoidal enclosures for compact arrays and broad coverage angles
- · Protech! High Frequency Driver Overload Protection
- Music / voice tone control switch
- Bracket and built in rigging points for horizontal or

• 100 volt line version available as Programme60T

er 2	2 x 6 5	woofer + 1	compression	driver	sound pressure level	90d
er handling			150	)Watts	IP rating	
edance		8ohr	ns (PG60) 100v	/ (60T)	dimensions (h x w x d)	674 x 246 x 300mr
uency respo	onse		50Hz -		weight	10.5
ings (60T ve	ersion)		120/60/30/15	5watts	programme 60 programme 60T	13.5k 15.9k

colour

white / black

88dB

1.1ka

100 x 100 x 186mm

white / black / silver

#### WHARFEDALE PROGRAMME80 & 80T



The Programme 80 is a high performance 150 watt dri 8 ohm loudspeaker system delivering excellent full range musical response from a compact enclosure. Smooth extended frequency response combines with wide dynamic capabilities and low distortion to provide high quality acoustic performance for foreground music systems moderate level sound reinforcement and music playback systems. The Programme 80 features one 8 inch woofer and a 1 inch titanium driver with a 60 x 60 horn.

- High output powerLow distortion
- HF driver protection
- Heavy duty foam backed grille
- · Speakon and barrier strip connections Extensive mounting points
- Trapezoid compact line array
- Brackets built into M8 mounting points
- 100 volt line version available as Programme80T

iver 1x8	woofer + 1 compression driver	sound pressure level	90dB
ower handling	150Watts	IP rating	-
pedance	80hms (PG80) 100v (80T)	dimensions (h x w x d)	470 x 260x 300mm
equency response	50Hz – 20kHz	weight	11.51
ppings (80T version)	120/60/30/15watts	programme 60 programme 60T	11.5kg 13.9kg
		colour	white / black

#### RCF MQ30P



- 3 woofer and a coaxial dome tweeter ensure a wide angle of coverage
- Faithfully reproduces announcements and provides a good music background
- Combined with a subwoofer the MQ30P allows high quality music distribution with high output levels
- Designed to adhere closely to the wall or ceiling and thus
- it has a limited protrusion The built-in hinged support makes the speaker easy to install and orient in any direction

power handling	12w 100v / 24w @16ohm	IP rating	
impedance	100V & 160hm	dimensions (h x w x d)	
frequency response	160Hz - 20kHz	weight	
tappinas	12/6/3/1.5watts	colour	

driver 3.75 with co-axial soft dome tweeter sound pressure level

#### **RCF MONITOR33T**



20 watt 100 volt line / 40 watt 4 ohm compact reflex

polystyrene trapezoidal shaped enclosure for multiple

cabinet loudspeaker

• Built-in multi-tap constant voltage transformer Built-in low-inductance passive crossover
Lightweight UV/weather resistant high density

applications and minimum visual intrusion Integrated mounting points for use with optional mounting hardware

Articulated surface mount hardware included

driver	4 75 with 0.5 Tweeter	sound pressure level	88dB
power handling	20w 100v / 40w @ 40hm	IP rating	IP44
impedance	100V and 40hm	dimensions (h x w x d)	216 x 154 x 136mm
frequency response	100Hz - 20kHz	weight	2.2kg
tappinas	20/10/5/2 5/1watts	colour	white / black

#### **RCF MONITOR44T**



- 60 watt 100 volt line 2 way cabinet speaker with bass reflex. driver
- 5 high-efficiency carbon fiber woofer CD horn loaded 0.5 dome tweeter
- Built-in multi-tap constant voltage transformer
- Built-in low-inductance passive crossover with high-frequency dynamic protection
   Lightweight UV/weather resistant trapezoidal shaped enclosure for multiple applications and minimum visual
- Integrated mounting points for use with optional mounting hardware
- Articulated surface mount hardware included

driver 5 curb	off libre will 0.5 Tweeter	souria pressure ievei	09Ub
power handling	30w 100v / 60w @ 40hm	IP rating	IP44
impedance	100V and 4ohm	dimensions (h x w x d)	262 x 182 x 167mm
frequency response	80Hz – 20kHz	weight	3.6kg
tappings	30/20/10/5/1 watts	colour	white / black

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11

89dB

## **loudspeakers**: wall cabinets (for music applications)

#### **SOUNDTUBE SM400i**



- 4 full-range wide dispersion surface-mount speaker
- Tool-free Stealth™ u-bracket mounting system provides fast & secure installation included with each SM400i speaker
- Vertical and horizontal pivoting offer precision aiming for indoor & outdoor applications
- New speed-tap power settings save customers time and money on ordering inventory tracking installation and system
- 25 70 7 and 100 Volt transformer options
- with coice coil/8 Ohm direct

   High-frequency driver protection with automatic reset
- Durable construction powder-coated grille Weatherized components and terminal weather boot allow for indoor or outdoor installations
- Optional port plugs provided for added weather resistance

driver 4 + 1 Convex BroadBeam®	Waveguide tweeter	sound pressure level	88.3dB
power handling	20Watts 100volt	IP rating	-
impedance	100volt & 80hms	dimensions (Ø x d)	470 x 260x 300mm
frequency response	92Hz – 20kHz	weight	11 5kg
tappings	20watt single tap	colour	white / black

#### **SOUNDTUBE SM500i**



- SM500i 5.25 coaxial wide dispesion surface
- Patented BroadBeam® dispersion technology allows fewer speakers to cover more area with full-frequency
- mounting system for precision aiming and rapid installation.
- New speed-tap power settings save customers time and money on ordering inventory tracking installation and system
- 25 70.7 and 100 Volt transformer options with voice coil/8 Ohm direct.
- High-frequency driver protection with automatic reset.
   Durable construction powder-coated
- grille and terminal weather boot allow for indoor or outdoor installations.

  Sonically matched with SoundTube's new CMi (in ceiling) and RSi (open ceiling)
- speakers for applications requiring combinations of hanging and mounted
- May be used in conjunction with RS801i Subwoofer for applications where additional bass is required.

driver 5.25 + 1	Convex BroadBeam® Waveguide tweeter	sound pressure level	88 5dB
power handling	33w 100v & 75w 8ohm	IP rating	-
impedance	100volt & 80hms	dimensions (h x w x d)	316 x 216 x 305mm
frequency respo	nse 75Hz – 20kHz	weight	4.3kg
tanninas	33/17/9/6watt	colour	white / black

## **loudspeakers**: pro-sound

#### **ELECTRO-VOICE SX80BE**



- The Industry Standard ultracompact two-way 8-inch system.
- 175 watt RMS 700 watts peak power handling
- EV DH2005 pure titanium compression driver • 90° x 65° constant-directivity high-frequency horn
- Paintable polystyrene enclosure Neutrik Speakon® connector
- OmniMount® Series 75 mounting hardware

driver	8	sound pressure level	92dB
power handling	175Watts	IP rating	-
impedance	8ohm	dimensions (h x w x d)	400 x 292 x 222mm
frequency response	65Hz – 20kHz	weight	8.2kg
tappings	-	colour	white / black

#### **ELECTRO-VOICE SX100-E**



12

- The Industry Standard compact 12-inch two-way system
- 200 watts continuous 800 watts peak power handling
- 65° x 65° Constant-directivity horn
- Can be used horizontally or vertically with identical coverage
- Durable polypropylene enclosure Rina-Mode Decoupling delivers smooth accurate vocals
- instruments and mids Built-in stand mount and inserts for safe suspension arraying and
- · Available in black or white

12 sound pressure level 98dB driver power handling 200Watts IP rating 80hm dimensions (h x w x d) 586 x 429 x 312mm impedance frequency response 80Hz - 25kHz weight - colour white / black tappings

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## loudspeakers: pro-sound

100dB

94dB

8.4ka

black

100dB

20.2kg

black

86dB

91dB

91dB

5kg

white

141 x 282 x 263mm

586 x 429 x 312mm 17.7kg

white / black

sound pressure level

dimensions (h x w x d)

IP rating

weight

colour

#### **ELECTRO-VOICE SX300E**



The world's best lightweight high-power speaker system.

driver

power handling

frequency response

impedance

- 300 watts continuous 1 200 watt peak power handling Delivers over 125 dB continuous 131 dB peaks (1 w / 1 m) at full power
- 65° x 65° Constant-directivity horn allows use vertically or Delivers unequalled vocals and pure accurate
- instruments and mids
- Rugged durable polypropylene enclosure
- Ring-Mode Decoupling delivers smooth accurate vocals instruments and mids
   Built-in stand mount and inserts for safe suspension arraying and use as floor monitor

- Available in black or white

<b>ELECTRO-VOICE ZX1</b>
--------------------------



- The ZX1 high-tech lightweight enclosure has been engineered to provide maximum rigidity and acoustic performance for performers on the move
- Velocity compensated port design
- Exceptional low frequency response
- Weatherized treated cone
- · Full-bandwidth overload protection
- driver sound pressure level power handling IP rating 200Watts impedance 80hms dimensions (h x w x d) frequency response 48Hz - 20kHz weiaht

12

8ohm

300Watts

80Hz - 25kHz

#### **ELECTRO-VOICE ZX4**



- The rugged enclosure of the Electro-Voice® Zx4 is perfect for portable main mix and monitor applications while the stylish design gives it appeal in even the trendiest of environments. At only 20.2 kg the lightweight Zx4 allows ease of transport and set up.
- Tremendous intelligibility and pattern control
- Tight low bass and outstanding power handling capacity Pure titanium diaphragm
- · Retractable monitor feet

15 sound pressure level power handling 400Watts IP ratina 80hms dimensions (h x w x d) 686 x 445 x 406mm impedance frequency response 42Hz - 20kHz weight tappings colour

#### **ELECTRO-VOICE ZX5**



- The 7x5 fits a variety of applications: installations of individual speakers or clusters in entertainment cultural or religious venues as well as on stages with bands musicians and P.A. rental companies.
- Elegant high-impact composite enclosure
- 2-inch neodymium ND2 compression driver
- 600 watts long-term power handling Two adjustable monitor anales
- Ten built-in rigging and suspension points
- 1.5 power handling 600Watts impedance 8ohms frequency response 41 Hz - 20kHz tappings
- sound pressure level 98dB dimensions (h x w x d) 686 x 445 x 406mm weight 21.3kg colour white / black

#### **ELECTRO-VOICE C4.2**



- EVID Series 4 Two Way Ceiling Speaker System. Perfect for conventional rooms. Excellent bandwidth in an esthetically unobtrusive installation profile. Its compact design fits in tight areas.
- Fully rated for use in air handling spaces
- Waveguide coupled titanium coated dome tweeter
  Easy 3-point mounting system for quick installations

- Complete with mounting support ring and tile rails
- impedance frequency response 65Hz - 20kHz tappings 1 88/3.75/7.5/15/30Watts

power handling

power handling

driver

IP rating 50Watts 181 x 176 100V + 80hm dimensions (Ø x d) weiaht 2.7kg colour

sound pressure level

sound pressure level

sound pressure level

IP rating

#### **ELECTRO-VOICE C8.2**



- EVID Series 8 Two Way Ceiling Speaker System, Never before has a ceiling speaker system delivered such a full range punch.
- Fully rated for use in air handling spaces
- Waveguide coupled titanium coated dome tweeter
- Complete with mounting support ring and tile rails
- 8 woofer providing amazing bass response Easy 4-point mounting system for quick installations

impedance	100V + 80hm	dimensions (Ø x d)	270 x 255mm
frequency respon	nse 50Hz – 20kHz	weight	5kg
tappings	3.75/7.5/15/30Watts	colour	white

100W

### **ELECTRO-VOICE C8.2LP**



- Low profile version of C8.2.
- Fully rated for use in air handling spaces
- Low profile rear enclosure for space restricted installations Waveguide coupled titanium coated dome tweeter
- 8 woofer providing amazing bass response
   Easy 4-point mounting system for quick installations
- Complete with mounting support ring and tile rails

power nanaling	10000
impedance	100V + 8ohm
frequency response	50Hz – 20kHz
tappings	3.75/7.5/15/30Watts

IP rating dimensions (Ø x d) 270 x 178mm weight colour

## **loudspeakers**: pro-sound

#### **ELECTRO-VOICE C10.1**



Compact and Powerful Ceiling Subwoofer for use with EV ceiling and Evid ranges

- Large 10 subwoofer in a tuned high performance
- Low frequency performance down to 45Hz
- One of the only quick mount ceiling TRUE subwoofers available on the market
- Secure 4-point easy mounting system

driver	10	sound pressure level	94dB
power handling	150Watts	IP rating	-
impedance	100V + 80hm	dimensions (Ø x d)	320 x 303mm
frequency response	45Hz - 180Hz	weight	7kg
tappings	15/30/60Watts	colour	white

#### **ELECTRO-VOICE EVID3.2 & 3.2T**



Iconic EV design. Ideal for background music as standalone system in retail/restaurants etc. Can be used with C10.1 or Evid12.1 subs for extended bass performance.

 Dual 3 5-inch LF drivers 3/4-inch Ti direct radiator tweeter

• Includes Stong Arm® mounting bracket Supplied as a pair

• 100 volt line version (EVID3.2T)

2 x 3.5 sound pressure level IP rating power handling 150Watts dimensions (h x w x d) 234 x 130 x 165mm impedance 8ohm (3 2) 100V (3.2T) frequency response 85Hz - 20kHz tappings (3.2T version) 10Watts colour

#### **ELECTRO-VOICE EVID4.2 & 4.2T**



Iconic EV design. Ideal for background/ midground music as standalone system in retail/restaurants/bars etc. Can be used with C10.1 or Evid12.1 subs for extended bass performance.

Dual 4-inch woofers

 1-inch waveguide coupled titanium tweeter • Powerful standalone performance

Includes Stong Arm® mounting bracket

Supplied as a pair

• 100 volt line version (EVID4.2T)

driver	2 x 4	sound pressure level	89dB
power handling	200Watts	IP rating	IP34
impedance	8ohm (42) 100V (4.2T)	dimensions (h x w x d)	234 x 127 x 165mm
frequency respons	e 65Hz – 20kHz	weight	
tappings (4.2T versi	on) 7.5/15/30Watts	EVID4.2 EVID4.2T	3.9kg 3.9kg
		colour	white / black

2 x 6.5

300Watts

62Hz – 20kHz

15/30/60Watts

8ohm (6 2) 100V (6.2T)

sound pressure leve

dimensions (h x w x d) 419 x 228 x 298mm

IP ratina

colour

#### **ELECTRO-VOICE EVID6.2 & 6.2T**



Iconio sound

- Duc
- · 1-inch Ti/waveguide tweete
- Delivers crisp and clean program for the utmost in listening experience
- Supplied as a pair
- 100 volt line version (EVID6.2T)

c EV design perfect for applications that require
nplary audio and the capability to fill large areas with
d. Outstanding full bass output ideal for shopping
stadiums airports etc.
al 6-inch LF drivers

Includes Stong Arm® mounting bracket

**ELECTRO-VOICE EVID12.1** 



Highly compact design sub augments and extends the low frequency response of any EV Ceiling or Evid models.

- Dual voice coils to handle both channels of a stereo pair • Built-in crossovers Can handle up to 4 x satellite speakers per channel

• 350 watts long term handling Trapezoidal design for easy installation

12 sound pressure level 106dB power handling 2 x 175Watts IP ratina impedance dimensions (h x w x d) 412 x 584 x 305mm 8Ohms frequency response 40Hz - 180Hz weiaht 18.1ka white / black tappings colour

8

200Watts

50Hz - 20kHz

80hms

sound pressure level

weiah

colour

dimensions (h x w x d) 270 x 445 x 220mm

#### **WHARFEDALE SERIES2190**



Compact pro-sound cabinet, Ideal for Bar/pub environments.

- · Baker Effect twin 90 degree offset tweeters for improved stereo image • 200 watt program power handlina Ferrofluid cooled 25mm titanium dome HF unit
- Auto-resetting thermal overload protection. Supplied with two steel mounting brackets
- Supplied as a pair
- Available in black

#### **WHARFEDALE SERIES3190**



High Power pro-sound cabinet. Ideal for Bar/pub/retail

- 'Baker Effect' twin 90 degree offset tweeters for improved stereo image
- 350 watt program power handling
- Ferrofluid cooled 25mm titanium dome HF unit Auto-resetting thermal overload protection
- Supplied with two steel mounting brackets.
- Supplied as a pair.
- Available in black

sound pressure leve power handling 350Watts IP ratina impedance

dimensions (h x w x d) 270 x 445 x 315mm 40Hz - 20kHz frequency response weigh 15.4ka colour tappings

call us now on: +44 (0)1663 767 888

power handling

frequency response

tappings (6.2T version)

impedance

driver

power handling

frequency response

impedance

tappings

## **loudspeakers**: pro-sound

sound pressure level

sound pressure level

sound pressure level

IP rating

colour

dimensions (h x w x d)

IP ratina

weight

coloui

95dB

14.8kg

98dB

98dB

25.95kg

110dB

36kg

black

675 x 460 x 450

515 x 375 x 330mm

#### WHARFEDALE EVPS10



Durable compact 2 way cabinet ideal for bands live events

driver

tappings

driver

power handling

tappinas

power handling

frequency response

- 10 Bass/Mid driver
- 1 compression driver
- 110 watts continuous power handling
- Driver overload protection
- · Road tough industrial carpet finish
- Sophisticated crossover design for smooth frequency and

#### WHARFEDALE EVPX12



87dB

IP34

1.75kg

IP34

90dB

9 5kg

black

93dB

black

white / black

white / black

Highly durable 2 way cabinet ideal for bands live events.

- 12 Bass/Mid driver
  - 1 compression driver 250 watts continuous power handling

Driver overload protection
Road tough industrial carpet finish
<ul> <li>Sophisticated crossover design for smooth frequency an</li> </ul>
power response

driver 12 sound pressure level IP rating power handling 250Watts impedance 80hms dimensions (h x w x d) 55Hz - 20kHz weigh

10

110Watts

70Hz - 20kHz

8ohms

590 x 430 x 370 19.3ka frequency response tappinas colour black

#### WHARFEDALE EVPX15



Highly durable 2 way cabinet ideal for bands live events.

- 15 Bass/Mid driver
- compression driver 300 watts continuous power handling
- Driver overload protection
- Road tough industrial carpet finish Sophisticated crossover design for smooth frequency and power response
- 15 IP ratina power handling 300Watts impedance 80hms dimensions (h x w x d) frequency response 45Hz - 20kHz weight tappings

5 + 1

30Watts

#### RCF MQ50



Professional compact cabinet loudspeaker designed for high quality audio installations such as bars restaurants places of worship retail etc.

- · Two-way compact monitor speaker
- Dual impedance
- 60 watt RMS at 160hm bypass
- Made from high density polystyrene • Includes hinged support bracket
- Innovative first fix cabling to bracket
- 245 x 165 x 175 impedance 100V and 16ohm dimensions (h x w x d 25.95kg frequency response 80Hz - 20kHz weight 2.5/5/10/20/30Watts colour white / black / silver tappings

### **RCF MSW8**



300 watt 8 ohm 12 Subwoofer for Monitor 88 Speaker

- · High efficiency Dual Load Reflex configuration Considerably extended low range frequency response and extremely low distortion
- Crossover bypass switch

12 driver sound pressure level IP rating power handling 300Watts RMS dimensions (h x w x d) 800 x 290 x 508mm impedance 80hms frequency response 35Hz - 125Hz weight

#### D.A.S. ARCO 4 & 4T



Molded high-impact ABS enclosures are lightweight rugged and look good The Arco 4 incorporates a 4 woofer with weather resistant polypropylene cone. High frequency reproduction is handled by a 19mm neodymium dome tweeter for brilliant highs. An Overload Safety Circuit protects the speakers from damage in case of overpowering. The T versions include a multi-tap transformer with 5 - 10 - 15W settings.

- Adjustable ceiling/wall mount is included with each unit reducing total cost T versions are equipped with factory-installed multi-tap transformers
- Optional U brackets and accessories allow for multiple configurations Cabinets include 4 M6 rigging points and a safety cable attachment point

4 woofer 19mm tweete power handling 100Watts RMS impedance 80hms Arco 4 and 100volt Arco4T frequency response 72Hz - 20kHz 15/10/5watts tappings sound pressure level 86dB IP rating 210 x 140 x 140mm dimensions (h x w x d) weiaht 1.6kg colour white / black

#### **ARCO 24 & 24T**



The Arco 24 incorporates two 4 woofers with weather resistant polypropylene cones. High frequency reproduction is handled by a 25 mm neodymium dome tweeter for brilliant highs and balanced performance. An Overload Safety Circuit protects the speakers from damage in case of overpowering. The T versions include a multi-tap transformer with 10-20-30 W settings.

- Small size and ready-to-paint exterior makes matching any decor easy Adjustable ceiling/wall mount is included with each unit reducing total cost
- T versions are equipped with factory-installed multi-tap transformers
   Optional U brackets and accessories allow for multiple configurations Cabinets include 4 M6 rigging points and a safety cable attachment point

2 x 4 woofer 25mm tweeter power handling 200Watts RMS impedance 80hms Arco 24 and 100volt Arco4T 65Hz - 20kHz frequency response 30/20/10watts tappings sound pressure level 89dB IP rating dimensions (h x w x d) 340 x 150 x 150mm 2.6kg weight colour white / black

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## **loudspeakers**: projectors

#### **CES AUDIO SOP5200**



Compact IP rated ABS sound projector

- 20 watt 100 & 70 volt line. Tappings via 6-core cable
  • IP rated to IEC529 IP66
- Wide bandwidth alternative to horn speakers ideal for music and speech applications
- High impact ABS housing with UV Protection

sound pressure leve nower handling 20Watts IP ratina impedance 100V dimensions (Ø x d) frequency response 120Hz - 20kHz weight 20/10/5/2 5Watts white (RAL9016) tappings colour

5

20Watts

100V + 8ohm

130Hz - 20kHz

20/10/5/2.5Watts

2 x 5

12Watts

150Hz - 20kHz

12/6/3/1.5Watts

100V

6Watts

15Watts

140Hz – 13kHz

10/5/2.5Watts

100V

130Hz - 18kHz

6/3/1.5/0.75watts

100V

20/10/5/2 5Watts

sound pressure level

dimensions (Ø x d)

IP rating

weight

colour

colour

IP rating

weight

colour

IP rating

weiaht

IP ratina

weight

colour

weight

colour

sound pressure level

dimensions (Ø x d)

sound pressure level

dimensions (Ø x d)

sound pressure level

dimensions (Ø x d)

#### **CES AUDIO XMR520PL**



ABS sound projector ideal for music and speech • 20 watt 100 & 70 volt line or 8Ω. Tappings via

- IP rated to IEC529 IP55
- Wide bandwidth alternative to horn speakers ideal for music and speech applications
- Compact design high impact ABS housing UV
- Epoxy coated steel bracket stainless steel exterior



**CES AUDIO MSP5200** 

Rugged IF external a

- 20 watt
- IP rated Wide be
- Rugged extruded aluminium housing
- Can be ceiling or wall mounted

IP rated aluminium sound projector. Ideal for	driver	5	sound pressure level
audio applications.	power handling	20Watts	IP rating
tt 100 & 70 volt line. Tappings via 6-core cable. d to IFC529 IP66	impedance	100V	dimensions (Ø x d)
pandwidth alternative to horn speakers - ideal for	frequency response	150Hz – 20kHz	weight

tappings

power handling

frequency response

impedance

driver

power handling

power handling

frequency response

impedance

tappings

driver

tappings

frequency response

impedance

driver

impedance

tappings

frequency response

#### **CES AUDIO MBP5120**



Rugged Aluminium Bi-directional sound projector. Ideal for walkways pedestrian tunnels corridors etc.

- 12 watt 100 & 70 volt line. Tappings via 6-core cable
- IP rated to IEC529 IP55
- Wide bandwidth alternative to horn speakers ideal for music and speech applications
- Bi-directional design for Corridors Walkways Tunnels etc.
- Inherently economical design
- Rugged extruded aluminium housing
- · Can be ceiling or wall mounted

#### BOSCH LBC3941/11



Compact water resistant sound projector

- 6 watt 100 volt Excellent speech and music reproduction
- · Very wide opening angle Modern unobtrusive styling
- Simple power setting
- Splash waterproof
- Compact yet powerful
- Complies with international installation and safety regulations

## **BOSCH LBC3094/15**



ABS sound projector. Ideal for music as well as speech

- 10 watt 100 volt line
- Suitable for speech and music reproduction
- Simple power setting
- Splash-waterproof
- Robust self-extinguishing ABS enclosure to UL 94 V0 · Complies with international installation and safety

#### **BOSCH LP1UC10E**



Stylish high quality sound projector with voice alarm compliance.

- 10 watt 100 volt line
- Superb speech and music reproduction
- Ease of installation
- Modern unobtrusive styling Integrated connection cable
- Suitable for loop-through cabling
- Tough impact-resistant enclosure
- Water and dust protected to IP 65
- · BS 5839 part 8 compliant
- power handling impedance frequency response
  - 10Watts 100V 75Hz – 20kHz 10/5/2.5Watts

6.5

- sound pressure level IP rating dimensions (Ø x d)
  - 185 x 300mm white (RAI 9010)

## **loudspeakers**: projectors

sound pressure level

dimensions (Ø x d)

IP rating

weight

colour

65

100V

20Watts

75Hz - 20kHz

20/10/5Watts

2 x 6.5

#### **BOSCH LP1UC20E**

91dB

IP66

2kg

98dB

IP55

2.2kg

91dB

2 5kg

91dB

IP55

3 2kg

88dB

1 5ka

92dB

IP35

2 5kg

86dB

IP65

175 x 268mm

off white (PH90019)

165 x 200mm

white (RAL9010)

IP65

146 x 186mm

silver anodized

146 x 200mm

silver anodized

IP66

184 x 200mm

ivory (RAI 1013)



Stylish high quality sound projector, Superb music and speech reproduction with voice alarm compliance

- 20 watts
- Superb speech and music reproduction
- Ease of installation Modern unobtrusive stylina
- Integrated connection cable
- · Suitable for loop-through cabling Ceiling and/or wall mounting
- Tough impact-resistant enclosure

•	water	ana	aust	prote	ecte	90

• BS 5839 part 8 compliant

DOCOII	IDIDATAL	
K()\('H	LP1BC10E	



Stylish high quality bi-directional sound projector. Superb compliance.

- Superb speech and music reproduction
- Fase of installation
- Modern unobtrusive styling
- · Integrated connection cable
- Suitable for loop-through cabling Ceiling and/or wall mounting
- Tough impact-resistant enclosure
- BS 5839 part 8 compliant

10Watts power handling 100V impedance 75Hz - 20kHz frequency response tappings 10/5/2.5Watts

driver

power handling

frequency response

impedance

tappings

driver

power handling

frequency response

power handling

frequency response

impedance

tappings

driver

impedance

tappings

sound pressure level 80dB IP65 IP rating dimensions (Ø x d) 185 x 297mm weight colour white (RAL9010)

87dB

185 x 300mm

white(RAL9010)

IP65

3kg

92dB

IP66

2.6kg

91dB

IP55

3.3kg

101dB

IP54

1.95kg

white

95dB

IP55

2.5kg

180 x 200mm

146 x 186mm

white (RAL9010)

146 x 200mm

white (RAL9010)

**BOSCH LBC3432/01** 



- Rugged Voice alarm compliant aluminium sound projector.
- Excellent speech and music reproduction
- Simple power setting
- Provision for supervision board mounting
- Suitable for loop-through cabling (Suspended) ceiling and/or wall mounting
- Robust aluminum extrusion enclosure
- Water and dust protected to IP 66 BS5839-8 compliant
- driver sound pressure level 20Watts power handling IP rating 100V impedance dimensions (Ø x d) frequency response 150Hz - 20kHz weight 20/10/5Watts tappinas colour

2 x 5

12Watts

180Hz - 20kHz

12/6/3Watts

100V

5.25

30Watts

120Hz - 15kHz

30/15/7.5Watts

100V

sound pressure leve

dimensions (Ø x d)

sound pressure level

dimensions (Ø x d)

IP ratina

weight

colour

IP rating

weiaht

colour



**APART MPH30** 

APART MPBD15

**BOSCH LBC3430/01** 

Rugged Voice alarm compliant bi-directional sound

- projector · Excellent speech and music reproduction
- Simple power setting
  2 speaker bi-directional system
- Provision for supervision board mounting
- Suitable for loop-through cabling
- (Suspended) ceiling and/or wall mounting Robust aluminum extrusion enclosure
- Water and dust protected to IP 66
- BS 5839-8 compliant
- Very powerful horn-loaded sound projector effective for both in- and outdoor use. • Suitable for areas where the background noise level is
- High quality\_30 watt 100 Volt transformer with several Equipped with a treated 5 25 woofer with aluminium
- dome giving a clear sound reproduction or music and speech even for long distance use Supplied with stainless steel bracket and screws and
- constructed from ABS plastics Weather and UV-proof

- Bi-Directional Sound Projector. · Stylish dual cone sound projector
- 5 25 coated dual cone woofer · High quality 15 watt 100 Volt transformer
- Ideal for back ground music and microphone calls
  Stainless steel bracket and screws
- Weatherproof IP64 rated

www.commercialaudiosolutions.com

- · High impact ABS UV-proof housing · Suitable for both indoor and outdoor applications
- impedance frequency response tappings

15Watts power handling 100V 100Hz - 17kHz 15/7 5/3 75Watts

2 x 5 25 Twin cone

sound pressure level IP rating dimensions (Ø x d) 150 x 196mm weight colour white (RAL9016)

## loudspeakers: horn

#### PROEL HS10



Rugged ABS rectangular horn flare

Stainless steel U bracket

driver sound pressure level 105dB 10Watts power handling IP ratina IP55 100V 125 x 176 x 179mm impedance 315Hz - 12.5kHz frequency response weiaht 1.1kg 10/5/3/1 5Watts tappings cream

#### **PROEL HS15**



Rugged ABS rectangular horn flare.

Stainless steel U bracket

driver sound pressure level 108dB 15Watts IP rating IP55 power handling 100V 161 x 222 x 227mm impedance 280Hz - 12.5kHz frequency response weight 1.3kg 15/10/5/3/1Watts cream

#### **PROEL HS30**



Rugged ABS rectangular horn flare.

• Stainless steel U bracket

109dB driver sound pressure level power handling IP rating impedance 100V dimensions (h x w x d) 208 x 287 x 257mm 250Hz - 12.5kHz 1.7ka weigh frequency response tappings 30/15/10/5/3/1Watts colour cream

10Watts

100V

sound pressure level

dimensions (Ø x d)

- sound pressure level

100V dimensions (Ø x d)

IP rating

weigh

colour

15Watts IP rating

460Hz - 9kHz weight

#### CES AUDIO PRH6101/8



CES AUDIO PRH8151/8

High Quality rugged construction round ABS re-entrant

- Water protected to IEC529 IP66.

- Glanded cable tails.
- Stainless steel mounting bracket & exterior hardware.

## 10 watt

- High impact ABS construction.
- · Very high efficiency. Built-in line transformer with screwdriver adjustable
- power selector (sealed).

High Quality rugged construction round ABS re-entrant

driver

impedance

power handling

tappings

frequency response

frequency response

15/7.50/3.75/1.87Watts/OFF/8Ohms colour

10/5/2.5/1.25Watts/OFF/8Ohms

 15 watt High impact ABS construction.

horn.

- Water protected to IEC529 IP66.
- · Very high efficiency.
- power selector (sealed). Glanded cable tails.
- Stainless steel mounting bracket & exterior hardware.



CES AUDIO PRH10301/8

High Quality rugged construction round ABS re-entrant horn.

- 30 watt
- High impact ABS construction Water protected to IEC529 IP66
- Very high efficiency
- Built-in line transformer with screwdriver adjustable
- Glanded cable tails
- Stainless steel mounting bracket & exterior hardware

110dB sound pressure level power handling 30Watts IP rating IP66 impedance 100V dimensions (Ø x d) 232.7 x 309 6mm frequency response 400Hz - 7 5kHz weight 2.11kg tappings 30/15/7 5/3.75Watts/OFF/8Ohms colour light grey (RAL7035)

#### **CES AUDIO MUH6300**



reproduction for both indoor and outdoor applications where long throw large area coverage is desired in harsh environments. Ideal for applications such as sports stadia cruise liners school yards municipal swimming pools high ambient industrial areas and leisure / theme parks.

Engineered to provide the highest quality voice and music

- Two-way capabilities for security / monitoring applications
- Water protected to IEC529 IP66
- UV protected for years of outdoor use
- Manufactured in ABS & Polypropylene with glass fibre
- Trunnion extruded aluminium bracket with stainless mounting screws
- driver 6.5 + 1 sound pressure level 98dB power handling 30Watts IP rating IP66 impedance 100V dimensions (h x w x d) 255 x 370 x 291mm 100Hz - 11kHz weight frequency response 4.6ka 30/15/7.5/3.75Watts colour light grey (RAL7035)

### **BOSCH LBC3700/00**



The very best music horn on the market. Ideal for music and speech in outdoor applications or high ambient noise

- 30 watt
- High quality music horn for excellent speech and music
- reproduction
- Two-way system High sensitivity
- Wide opening angle
- Water and dust protected to IP65

#### **BOSCH LBC3482/00**



Aluminium round re-entrant horn speaker with Voice alarm

- Stainless steel U bracket
- Protected to IP65
- Complies with all voice alarm standards

driver	-	sound pressure level	
power handling	25Watts	IP rating	
impedance	100V	dimensions (Ø x d)	
from ioney rosponse	550Hz 51Hz	woight	

65 +1

30Watts

125Hz - 20kHz

30/15/7.5/3.75Watts

100V

power handling

frequency response

impedance

tappings

tappings

**loudspeakers**: horn

97dB

IP65

5kg

107dB

112dB

490 x499mm

light grev (RAL 7035)

light grey (RAL7035)

IP65

4.5kg

103dB

IP65

1.25kg

108dB

1.4kg

110dB

111dB

400 x 353mm

liaht arev (RAL7035)

IP65

IP65

IP65

355 x425mm

light grey (RAL7035)

IP65

260 x 442 x 287.5mm

light grey (RAL7035)

sound pressure level

dimensions (h x w x d)

IP ratina

weiaht

colour

**BOSCH LBC3483/00** 



Aluminium round re-entrant horn speaker with Voice alarm

- Stainless steel U bracket
- Protected to IP65
- Complies with all voice alarm standards

driver sound pressure level power handling 35Watts IP rating 100V impedance dimensions (Ø x d) 380Hz – 5kHz frequency respons weight 35/17.5/8 75Watts tappinas colour

25/12.5/6.25 Watts

#### **BOSCH LBC3481/12**



106dB

108dB

1 74ka

215.8 x 269.4mm

light grey (RAL7035)

IP66

156.4 x 220 7mm

light grey (RAL7035)

IP66

ABS round re-entrant horn speaker

- · Stainless steel U bracket
- · Excellent speech reproduction

driver sound pressure leve power handling 10Watts IP ratina 100V impedance dimensions (Ø x d) frequency response 500Hz - 7kHz weiaht 10/5/2.5Watts colour tappings

### **BOSCH LBC3491/12**



ABS rectangular re-entrant horn speaker

- Stainless steel U bracket Protected to IP65
- Excellent speech reproduction

sound pressure leve driver 10Watts IP rating power handling 100V 171 x 267 x 276mm 480Hz - 5 5kHz frequency response weiaht tappings 10/5/2.5Watts light grey (RAL7035)

### **BOSCH LBC3492/12**



ABS round re-entrant horn speaker

- Stainless steel U bracket Protected to IP65
- Excellent speech reproduction

20Watts power handling 100V impedance 380Hz – 5 5kHz frequency response tappings 20/10/5Watts

driver

driver

IP rating 354 x 332mm dimensions (Ø x d) weight 2.65kg colour light grey (RAL7035)

sound pressure leve

sound pressure leve

sound pressure level

#### **BOSCH LBC3493/12**



ABS round re-entrant horn speaker • Stainless steel U bracket

- Protected to IP65
- · Excellent speech reproduction

power handling 30Watts IP rating 100V dimensions (Ø x d) impedance 380Hz – 5kHz 30/15/7.5Watts tappinas colour

#### BOSCH TR2-B (by special order only)



Rectangular Exponential Horn Flare.

- UV protected Polypropylene Stainless steel U bracket
- Protected to IP66
- Requires UT35T driver unit(see below) or other

power handling impedance frequency response tappings dispersion H/V @ 2kHz

100V 300Hz - 5kHz 35/20/10Watts

35Watts

IP rating dimensions (h x w x d) 180 x 340 x 415mm weight (ex UT-35T) 1.25kg 70°x 50° colour

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grey

108dB

## **loudspeakers**: horn

#### PASO TR3-B (by special order only)



- Rectangular Exponential Horn Flare.
- UV protected Polypropylene
- Stainless steel U bracket
- Protected to IP66 • Requires UT35T or UT60Tdriver unit (see below) or other

power handling	35Watts	sound pressure level	110dB
impedance	100V	IP rating	IP66
frequency response	300Hz - 5kHz	dimensions (h x w x d)	285 x 515 x 486mm
tappings	35/20/10Watts	weight (ex UT-35T)	1 25kg
dispersion H/V @ 2kHz	55°x 40°	colour	grey

#### **PASO UT35-T** (by special order only)



100 volt line screw on driver unit for TR2-B and TR3-B. power handling 35Watts sound pressure level 110dB impedance 100V IP rating 112 x 154mm frequency response dimensions (h x w x d) 35/20/10Watts weight (ex UT-35T) 1 75kg tappings dispersion H/V @ 2kHz colour grey

#### PASO UT60-T (by special order only)



100 volt line screw on driver unit for TR3-B power handling 111dB sound pressure level impedance 100V IP rating 112 x 154mm dimensions (h x w x d) frequency response 60/30/15/7 5Watts 2.1kg weight dispersion H/V @ 2kHz colour grey

power handling

power handling

frequency response

impedance

tappings

frequency response

impedance

1 x 3 Woofer + 1 x 2 Tweeter

2 x 3 Woofer + 1 x 2 Tweeter

sound pressure level

dimensions (h x w x d)

sound pressure level

100V dimensions (h x w x d)

colour

10Watts IP rating

20Watts IP rating

150Hz - 20kHz weight

20/10/5/2 5Watts

100V

170Hz - 20kHz weight

10/5/2 5/1.25Watts

## loudspeakers: column

#### **CES AUDIO CLS3100**



- Compact slimline column loudspeaker range
- Highly cost effective solution
- Durable galvanized steel housing
  Attractive slimline construction
- High specification driver units / tweeter for exceptional speech & music reproduction Suitable for accurate long throw applications
- Multi impedance 100V & 70V
- Rotary power and tappings selector
   Rear-mounted low-cut switch for speech
- Mounting bracket included

#### **CES AUDIO CLS3200**



- Compact slimline column loudspeaker range
- · Highly cost effective solution
- Durable galvanized steel housingAttractive slimline construction
- High specification driver units / tweeter for exceptional speech & music reproduction
- Suitable for accurate long throw applications
- Multi impedance 100V & 70V
- Rotary power and tappings selectorRear-mounted low-cut switch for speech
- Mounting bracket included

#### **CES AUDIO CLS3300**



20

- Compact slimline column loudspeaker range
- Highly cost effective solution
- · Durable galvanized steel housing
- Attractive slimline construction
- High specification driver units / tweeter for exceptional speech & music reproduction
- Suitable for accurate long throw applications
- Multi impedance 100V & 70V
- Rotary power and tappings selectorRear-mounted low-cut switch for speech
- Mounting bracket included
- 3 x 3 Woofer + 1 x 2 Tweeter sound pressure level 88dB 20Watts IP rating power handling impedance 100V dimensions (h x w x d) 387 x 95 x 95mm 140Hz - 20kHz weight 2.3kg frequency response 30/17/7 5/3.75Watts colour white (RAL9003)

sales@commercialaudiosolutions.com

## loudspeakers: column

white (RAL9003)

#### **CES AUDIO CLS3400**

85dB

1 31kg

87dB

181ka

304 x 95 x 95mm

white (RAL9003)

222 x 95 x 95mm

white (RAL9003)

Compact slimline column loudspeaker range · Highly cost effective solution Durable galvanized steel housing

Attractive slimline construction

High specification driver units / tweeter for exceptional speech & music reproduction

Suitable for accurate long throw applications
 Multi impedance 100V & 70V

 Rotary power and tappings selector Rear-mounted low-cut switch for speech

Mounting bracket included

driver 4 x 3 Woofer + 1 x 2 Tweeter sound pressure level 40Watts IP ratina power handling 100V dimensions (h x w x d) 469 x 95 x 95mm impedance frequency response 140Hz - 20kHz weiaht 2 8kg 40/20/10/5Watts tappings colour white (RAL9003)

#### **CES AUDIO COS3100**



High Quality IP rated column speakers, Ideal for places of worship conferencing and concourse applications.

Durable extruded aluminium housing

 Attractive slimline construction High specification driver units / tweeter for exceptional speech & music reproduction

• Suitable for accurate long throw applications

Water protected to IEC529 IP66 suitable for indoor and

Durable aluminium alloy multi bracket broken tested up

Also available in 20 & 30 watt versions

Multi impedance 100V 70V

· Tapping selected via 6 way power cord

driver 2 x 3.5 Woofer + 1 x 3.25 Tweeter sound pressure level	91d
power handling 10Watts IP rating	IP6
impedance 100V dimensions (h x w x d) 395 x	114 x 96mn
frequency response 130Hz - 20kHz weight	2 8kg

10/5/2.5/1.25Watts colour

## **CES AUDIO COS3200**



High Quality IP rated column speakers. Ideal for places of worship conferencing and concourse applications.

Durable extruded aluminium housing

• Attractive slimline construction

 High specification driver units / tweeter for exceptional speech & music reproduction

• Suitable for accurate long throw applications

Water protected to IEC529 IP66 suitable for indoor and outdoor use

Durable aluminium allov multi bracket broken tested up

Also available in 10 & 30 watt versions

Multi impedance 100V 70V
 Tapping selected via 6 way power cord

4 x 3.5 Woofer + 1 x 3.25 Tweeter sound pressure level 92dB driver power handling 20Watts IP rating IP66 100V dimensions (h x w x d) 585 x 114 x 96mm impedance 120Hz - 20kHz weight frequency response tappings 20/10/5/2 5Watts colour white (RAL9003)

### **CES AUDIO COS3300**



High Quality IP rated column speakers. Ideal for places of worship conferencing and concourse applications.

• Durable extruded aluminium housing

Attractive slimline construction

• High specification driver units / tweeter for exceptional speech & music reproduction Suitable for accurate long throw applications

 Water protected to IEC529 IP66 suitable for indoor and outdoor use

Durable aluminium alloy multi bracket broken tested up

• Also available in 10 & 20 watt versions

Multi impedance 100V 70V

Tapping selected via 6 way power cord

driver	6 x 3 5	Woofer + 1 x 3.25	Tweeter	sound pressure level	93dl
power han	ndling		30Watts	IP rating	IP6
impedanc	е		100V	dimensions (h x w x d)	770 x 114 x 96mn
frequency	response	e 110H	z – 20kHz	weight	5 6kg
tappings		30/15/7.5/3	3.75Watts	colour	white (RAL9003

### **BOSCH LA1UW24**



• 24 watt 100 volt general-purpose cost effective column loudspeaker for indoor use · Ideal for places of worship congress venues meeting

 A swivel wall mounting bracket is supplied as standard Robust solid MDF enclosure covered with durable

ABS front covered with fine woven cloth in matching

Fitted with four dual cone high sensitivity loudspeaker

4 x 5 96dB sound pressure level 24Watts IP rating power handling 100V 841 x 151 x 129mm dimensions (h x w x d) frequency response 165Hz - 16kHz weight 5.5kg colour white (RAL9010/RAL7044) - black (RAL9004) 24/12/6Watts

#### **BOSCH LA1UW36**



- 36 watt 100 volt general-purpose cost effective column loudspeaker for indoor use Ideal for places of worship congress venues meeting rooms and canteens
- A swivel wall mounting bracket is supplied as standard Robust solid MDF enclosure covered with durable easy-to-clean viny
- ABS front covered with fine woven cloth in matching · Fitted with four dual cone high sensitivity loudspeaker

anvoi	1,7,0	soona pross	101010101
power handling	36Watts	IP rating	
impedance	100V	dimensions	(h x w x d)
frequency response	160Hz – 19kHz	weight	
tappings	36/18/9Watts	colour	white (RAL9010/

)/7044) – black (RAL9004)

sound pressure leve

98dB

841 x 151 x 129mm

## loudspeakers: column

#### **BOSCH LBC3200/00**



30 watt Line Array with excellent directivity characteristics. Voice alarm compliant as standard.

driver

tappings

driver

power handling

driver

power handling

frequency response

impedance

tappings

frequency response

impedance

power handling

frequency response

- Extended listening area
- Excellent intelligibility of speech and music
- Uniform distribution of natural sound throughout the room Suitable for any small to medium enclosures from
- congress venues to meeting rooms Extremely slim
- Voice evacuation compliant as standard
- Ideal combination of advanced acoustics and easy application
- · Unrivalled sound quality for size

### **BOSCH LBC3201/00**



60 watt Line Array with excellent directivity characteristics. Voice alarm compliant as standard.

- Extended listening area
- Excellent intelligibility of speech and music
- Uniform distribution of natural sound throughout the room Excellent directivity for use in acoustically difficult
- reverberant applications · Suitable for larger enclosures such as meeting halls and
- places of worship
- Voice evacuation compliant as standard

#### **BOSCH LBC3210/00**



- High power line Array with excellent directivity characteristics. Voice alarm compliant as standard.
- Extended listening area
- Excellent intelligibility of speech and music
   Uniform distribution of natural sound throughout the room
- Suitable for both indoor and outdoor use ranging from sport stadiums to passenger terminals
- · Ideal combination of advanced acoustics and easy
- Powerful with high efficiency
- Voice evacuation compliant as standard
   Provision for inside mounting the optional line/
- loudspeaker supervision board

driver	4	sound pressure level	97dl
power handling	60Watts	IP rating	IP6
impedance	100V	dimensions (h x w x d)	1200 x 160 x 90mn
frequency response	190Hz – 20kHz	weight	9kg
tappings	60/30/15Watts	colour	silve

12Watts

130Hz - 20kHz

12/9/6/3/1Watts/8Ohms

100V

2 sound pressure level

2 sound pressure level

dimensions (h x w x d) 1200 x 80 x 90mm

IP rating

dimensions (h x w x d)

IP ratina

30Watts

100V

190Hz - 18kHz weight

30/15/7.5Watts colour

60Watts

100V

190Hz - 18kHz weight

60/30/15Watts colour

91dB

92dB

6.4ka

600 x 80 x 90mm

## **loudspeakers**: pendant

#### **CES AUDIO SPS5121**



- Compact high quality12 watt pendant.
- Designed for wide area sound coverage
- 12 watt compact 5 driver unit
- High performance driver units for music & speech applications
- Power cord broken tested up to 48.35 kgs (106 lbs)
- High impact self extinguishing UL94V0 ABS housing with
- IP rated to IEC529 IP55



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**CES AUDIO SPS6301** 

High power unit. Ideal for music as well as speech applications Designed for wide area sound coverage.

- 30 watt 65 driver unit
- High performance driver units for music & speech applications
- Power cord broken tested up to 48.35 kgs (106 lbs)
- High impact self extinguishing UL94V0 ABS housing with UV
- IP rated to IEC529 IP55

driver power handling 100Hz - 20kHz frequency response

6.5 sound pressure level 30Watts IP rating 100V dimensions (Ø x d) weight 30/20/15/10/5Watts/8Ohms

call us now on: +44 (0)1663 767 888

5 sound pressure level

dimensions (Ø x d)

IP rating

weiaht

IP55 260mm 2.4kg white (RAL9016)

89dB

IP55

180mm

white (RAL9016)

1.5ka

107dB

## **loudspeakers**: pendant

sound pressure level

sound pressure level

dimensions (Ø x d)

sound pressure level

dimensions (Ø x d)

sound pressure level

dimensions (Ø x d)

sound pressure leve

IP rating

weight

colour

IP rating

weight

colour

IP ratina

weight

#### PROEL CSB10



Cost effective pendant loudspeaker, Ideal for speech & background music applications

- · Designed for wide area sound coverage
- 10 watt compact 5 driver unit
- For music & speech applications
- 5m hanaina chord

power handling	10Watts	
impedance	100V	
frequency response	110Hz - 15kHz	,

tappings

power handling

frequency response

impedance

tappinas

driver

power handling

frequency response

impedance

tappings

driver

power handling

frequency response

impedance

tappings

10/5/2.5Watts

IP44 IP ratina dimensions (Ø x d) 180mm weight 1.5kg white (RAL9010)

92dB

99dB

IP65

3ka

85dB

197 x 224mm

white / black

88.5dB

4.3kg

90.5dB

245.9 x 298.3mm

white / black

185 x 254mm

white (RAL9010)

#### **APART SPH20**



Superb 360° coverage pattern reduces install costs dramatically. Great from music as well as speech.

- Dual-cone Pendant speaker
- Built-in special dispersion cone giving a 360° wide dispersion
- The best choice for spaces with high ceilings (+4m) Moisture and UV proof ABS plastic housing

driver	8	sound pressure level	99dB
power handling	20Watts	IP rating	IP63
impedance	100V	dimensions (Ø x d)	254mm
frequency response	80Hz – 18kHz	weight	2.3kg
tanninas	20/10/5/2 5Watts	colour	white

65

100V

20Watts

80Hz - kHz

20Watts

32Watts

100V + 8ohm

75Hz – 22kHz

32/16/8/4Watts

100V + 8ohm

94Hz - 22kHx

20/10/5Watts

4 Woofer + 1 Tweeter

20/10/5/2 5W/8ohm

5.25 Woofer + 1 Tweeter

65 Woofer + 1 Tweeter

**BOSCH LS1UC20E** 



Stylish design pendant loudspeaker. Ideal for atriums large open plan retail outlets etc. Also voice alarm compliant.

- Superb speech and music reproduction Wide sound spread
- · Ease of installation
- Modern unobtrusive styling Tough impact-resistant enclosure
- 5 m connection cable
- Provision for optional safety cord
- Water and dust protected to IP65
- BS 5839 part 8 compliant

#### **SOUNDTUBE RS400i**



SoundTube speakers deliver better more intelligible sound through Broad-Beam® dispersion technology which distributes the higher frequencies of sound in a wider more effective pattern than conventional speakers. This allows for wider spacing of speakers and fewer speakers overall without sacrificing intelligibility. From retail to restaurant entertainment to education, safety to sport, SoundTube, speakers have set new standards for performance installation ease style and value.

- 20 watt 8ohm Pendant loudspeaker
- 4 weatherproofed woofer
- 1 broadbeam tweeter
- Complete fixing system included · Available in black or white
- **SOUNDTUBE RS500i**



SoundTube speakers deliver better more intelligible sound through Broad-Beam® dispersion technology which distributes the higher frequencies of sound in a wider more effective pattern than conventional speakers. This allows for wider spacing of speakers and fewer speakers overall without sacrificing intelligibility. From retail to restaurant entertainment to education safety to sport SoundTube speakers have set new standards for performance installation ease style and value.

- 32 watt Pendant loudspeaker • 5.25 weatherproofed woofe • 1 broadbeam tweeter
- · Complete fixing system included
- Available in black or white

## **SOUNDTUBE RS600i**



SoundTube speakers deliver better more intelligible sound through Broad-Beam® dispersion technology which distributes the higher frequencies of sound in a wider more effective pattern than conventional speakers. This allows for wider spacing of speakers and fewer speakers overall without sacrificing intelligibility. From retail to restaurant entertainment to education safety to sport SoundTube speakers have set new standards for performance installation ease style and value.

- 32 watt Pendant loudspeaker
- · 6.5 weatherproofed woofer 1 broadbeam tweeter
- Ideal for music applications
- Complete fixing system included
- · Available in black or white

32Watts IP rating power handling 100V + 8ohm 307.3 x 363.6mm impedance 63Hz - 22kHz frequency response weiaht 6.1kg 32/16/8/4Watts white / black tappings

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## loudspeakers: pendant

#### **SOUNDTUBE RS800i**



SoundTube speakers deliver better more intelligible sound through Broad-Beam® dispersion technology which distributes the higher frequencies of sound in a wider more effective pattern than conventional speakers. This allows for wider spacing of speakers and fewer speakers overall without sacrificing intelligibility. From retail to restaurant entertainment to education safety to sport SoundTube speakers have set new standards for performance installation ease style and value.

power handling	64Watts	IP rating	-
impedance	100V + 80hm	dimensions (Ø x d)	376.5 x 437 7mm
frequency response	65Hz – 22kHz	weight	9.2kg
tappings	54/32/16/8Watts	colour	white / black

sound pressure level

weight

colour

sound pressure level

dimensions (Ø x d) 781 x 333mm

black / clear or custom

102dB

3.45kg

181 x 262mm

red (RAL 3000)

red (RAL3000)

IP67

92.5dB

8 Woofer + 1 Tweeter

- 64 watt Pendant loudspeaker
- 8 weatherproofed woofer
- 1 broadbeam tweeter
- Mid/foreground music applications Complete fixing system included
- · Available in black or white

#### **SOUNDTUBE FB6030**



Stereo Dual Parabolic 8 Ohm Stereo / 4 Ohm Mono Narrow Dispersion Suspension Speaker. Designed to offer extremely defined audio fields e g a museum display with audio narration or a music shop with demo stations.

- Patented Dual-Parabolic dispersion control technology provides a dramatic hot spot with crisp stereo separation
- Engineered for stereo or mono applications Twin 25 mm (1 in) convex aluminum High Excursion Micro
   Transducers in individually sealed enclosures for stereo or mono music & messaging
  • Patented ZeroReflection™ enclosure technology
- for accurate sound reproduction
- Narrow 41° coverage angle for sharp focus
- Single-point balanced mounting for easier and cleaner-looking installs
- Mounting hardware included optional wall bracket available

driver	2x25mm sealed transducers	sound pressure level	92.5dB
power handling	30Watts RMS 8ohm/ 10watt 100volt line	IP rating	-

100V + 8ohm

104Hz - 22kHz

10/5/2.5/1.25Watts

impedance

tappinas

frequency response

tappinas

## **loudspeakers**: ex-rated

#### **ES2 BEXL15D**



- EEx d IIC T4
- ATEX / KEMA Certified / CENELEC approved
- Area classification ZONE 1 & 2
- Complies with BS5839 Part 8
- Marine Grade LM6 LIGHT WEIGHT housing
   Large termination area for ease of installation
- PCB protected against damage during installation
- · Fitted with Thermal Fuse

power handling	15	IP rating
impedance	100v	dimensions (Ø x d)
frequency response	400Hz – 8kHz	weight
tappings	15/7 5/3/1Watts	colour

#### **ES2 BEXL25D**



- FFx d IIC T4
- ATEX / KEMA Certified / CENELEC approved Area classification ZONE 1 & 2
- Complies with BS5839 Part 8
- Marine Grade LM6 LIGHT WEIGHT housing
- Large termination area for ease of installation
- PCB protected against damage during installation
- · Fitted with Thermal Fuse

driver	-	sound pressure level	105dl
power handling	25	IP rating	IP6
impedance	100v	dimensions (Ø x d)	220 x 313mn
frequency response	300Hz - 8kHz	weight	3.95kg

colour

25/12 5/6/2Watts

## loudspeakers: voice alarm

#### **CES AUDIO QCM5061EVAF**



- 5 compact ceiling speaker with patented rapid installation system
- · Compliant to BS5839 part 8. (British standards for voice alarm
- Mild steel construction capable of withstanding temperature
- Ceramic termination blocks and fire resistant internal cabling
- Twin gland entry steel fire dome with patented SUPER-FIT system
- 150°C thermal isolating fuse
- Share generic low profile grille design & simple fit system throughout entire QCM series
- Fitted with a 5.25 twin cone driver unit. Designed to offer wide response for music & speech
- 6 watt transformer with multi tappings down to 0.75W (100V)
- Built-in ceiling tile cutout marker
- · Dished grille design for acoustic integrity

driver	5	sound pressure level	92dB
power handling	6Watts	IP rating	-
impedance	100V	dimensions (Ø x d)	180 x 127mm
frequency response	100Hz – 20kHz	weight	1.7kg
tappings	6/3/1 5/0 75Watts	colour	white (RAL9003)

#### **CES AUDIO QCM6061EVAF**



6.5 standard ceiling speaker with patented rapid installation

- · Compliant to BS5839 part 8. (British standards for voice alarm
- Mild steel construction capable of withstanding temperature
- Ceramic termination blocks and fire resistant internal cabling
- Twin gland entry steel fire dome with patented SUPER-FIT
- 150°C thermal isolating fuse
- Share generic low profile grille design & simple fit system throughout entire QCM series
- Fitted with a 6.5 twin cone driver unit. Designed to offer wide response for music & speech

  6 watt transformer with multi tappings down to 0.75W (100V) & 0.375W (70V)
- Built-in ceiling tile cutout marker
- Dished grille design for acoustic integrity

driver	6	sound pressure level	93dB
power handling	6Watts	IP rating	-
impedance	100V	dimensions (Ø x d)	230 x 127mm
frequency response	100Hz - 20kHz	weight	2kg
tappinas	6/3/1 5/0 75Watts	colour	white (RAI 9003)

## **CES AUDIO QCM8200CVAF**



8 pro ceiling speaker with patented rapid installation system Compliant to BS5839 part 8. (British standards for voice alarm

- Mild steel construction capable of withstanding temperature
- of 650°C Ceramic termination blocks and fire resistant internal cabling
- Twin gland entry steel fire dome with patented SUPER-FIT
- 150°C thermal isolating fuse
- Share generic low profile grille design & simple fit system throughout entire QCM series
- The ultimate ceiling speaker from CES Audio

  Titled with an 8 2-way polypropylene driver unit with 2.5 mylar tweeter & 13 ounce magnet designed to offer wide response for music & speech Excellent low frequency response
- 20 watt transformer with multi tappings down to 2.5W (100V)
- & 1 25W (70V)
- · Built-in ceiling tile cutout marker
- · Dished grille design for acoustic integrity

driver 8 D	river + 25 Tweeter	sound pressure level	89dE
power handling	20Watts	IP rating	-
impedance	100V	dimensions (Ø x d)	270 x 127mm
frequency response	50Hz – 20kHz	weight	3.2kg
tappings	20/10/5/2.5Watts	colour	white (RAL9003)

#### **CES AUDIO WSM5061VA**



Multi purpose wall cabinet loudspeaker designed to be vandal-proof as well as compliant with voice alarm standards world-wide. Ideal for environments such as schools public buildings car parks offices etc.

- Compliant to BS5839 part 8. (British standards for voice alarm
- Mild steel construction capable of withstanding temperature Ruaged powder-coated vandal-resistant mild steel cabinet
- Ceramic termination blocks and fire resistant internal cabling.
- Twin gland entry steel fire dome with patented SUPER-FIT
- 150°C thermal isolating fuse
- 2 fix install system

driver	5.25	sound pressure level	91dE
power handling	6Watts	IP rating	
impedance	100V	dimensions (h x w x d)	163.5 x 163.5 x 60mm
frequency response	150Hz – 18kHz	weight	2kg
tappings	6/3/1 5/0 75Watts	colour	white (RAL9003

6.5

sound pressure leve

#### **BOSCH LBC3018/00**



Rugged vandal-proof cabinet speaker complaint to BS5839part8 for voice alarm.

- 6 watt 100 volt line
- Suitable for speech and music reproduction
- Robust metal enclosure Surface and/or recessed mounting
- Unobtrusive in virtually all interiors
- Recommended for voice evacuation systems

6Watts IP ratina power handling 100V impedance dimensions (h x w x d) frequency response 150Hz - 20kHz weight tappings 6/3/1 5/0 75Watts colour

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25

2.6kg

195 x 260 x 80mm

white (RAL9010)

## **loudspeakers**: voice alarm

#### **BOSCH LS1UC20E**



Stylish design pendant loudspeaker. Ideal for atriums large open plan retail outlets etc. Voice alarm compliant to BS

Superb speech and music reproduction

 Wide sound spread Fase of installation

· Modern unobtrusive styling

• Tough impact-resistant enclosure

• 5m connection cable • Provision for optional safety cord

Water and dust protected to IP 65

• BS 5839 part 8 compliant

#### **BOSCH LP1UC10E**



Stylish high quality sound projector with voice alarm

• 10 watt 100 volt line

Superb speech and music reproduction

Ease of installation

 Modern unobtrusive styling Integrated connection cable

Suitable for loop-through cabling

Ceiling and/or wall mountingTough impact-resistant enclosure

Water and dust protected to IP65

BS 5839 part 8 compliant

#### **BOSCH LP1UC20E**



Stylish high quality sound projector. Superb music and

• 20 watts

• Superb speech and music reproduction

 Fase of installation Modern unobtrusive styling

· Integrated connection cable

Suitable for loop-through cabling Ceiling and/or wall mounting

Tough impact-resistant enclosure

Water and dust protected to IP 65

BS 5839 part 8 compliant

#### **BOSCH LP1BC10E**



Stylish high quality bi-directional sound projector. Superb music and speech reproduction with voice alarm

Superb speech and music reproduction

Ease of installation

· Modern unobtrusive styling

Integrated connection cable

· Suitable for loop-through cabling Ceiling and/or wall mounting

• Tough impact-resistant enclosure

Water and dust protected to IP 65

BS 5839 part 8 compliant

### BOSCH LBC3200/00



\*NB picture shows lower section of speaker only!

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30 watt Line Array with excellent directivity characteristics. Voice alarm compliant as standard.

 Extended listening area Excellent intelligibility of speech and music

 Uniform distribution of natural sound throughout the room Suitable for any small to medium enclosures from

congress venues to meeting rooms Extremely slim

Voice evacuation compliant as standard

Ideal combination of advanced acoustics and easy

Unrivalled sound quality for size

**BOSCH LBC3201/00** 

Voice alarm compliant as standard. Extended listening area

Excellent intelligibility of speech and music.

 Uniform distribution of natural sound throughout the room Excellent directivity for use in acoustically difficult reverberant

Suitable for larger enclosures such as meeting halls and

60 watt Line Array with excellent directivity characteristics.

places of worship Extremely slim

Voice evacuation compliant as standard

30Watts IP rating power handling 100V impedance dimensions (h x w x d) 600 x 80 x 90mm 190Hz – 18kHz frequency response weight tappinas 30/15/7.5Watts colour

6.5

100V

6.5

100V

6.5

100V

6.5

100V

10Watts

75Hz - 20kHz

20Watts

75Hz - 20kHz

5/10/20Watts

10Watts

75Hz - 20kHz

2 5/5/10Watts

20Watts

80Hz - 20kHz

20/10/5Watts

power handling

power handling

frequency response

impedance

impedance

tappings

frequency response

power handling

tappings

driver

frequency response

tappinas

frequency response

impedance

tappings

sound pressure leve

dimensions (Ø x d)

sound pressure level

dimensions (Ø x d)

sound pressure level

dimensions (Ø x d)

sound pressure leve

dimensions (Ø x d)

sound pressure level

IP ratina

weiaht

colour

IP rating

weight

colour

IP rating

weight

colour

IP ratina

weight

colour

86dB

86dB

87dB

80dB

185 x 297mm

white (RAL9010)

IP65

3ka

91dB

3kg

silver

185 x 300mm

white (RAL9010)

IP65

185 x 300mm

white (RAI 9010)

IP65

white (RAL9010)

IP55

#### sound pressure level 6Watts IP rating power handling 100V 1200 x 80 x 90mm 190Hz - 18kHz frequency response weiaht 6.4kg tappings colour

call us now on: +44 (0) 1663 767 888

## loudspeakers: voice alarm

sound pressure leve

dimensions (h x w x d) 1200 x 160 x 90mm

IP ratina

weight

97dB

IP66

9kg

91dB

IP55

3.3kg

146 x 186mm

white (RAL:9010)

#### **BOSCH LBC3210/00**



High power line Array with excellent directivity characteristics. Voice alarm compliant as standard

driver

power handling

power handling

frequency response

impedance

tappings

frequency response

impedance

tappings

Extended listening area

Excellent intelligibility of speech and music

 Uniform distribution of natural sound throughout the room · Suitable for both indoor and outdoor use ranging from sport stadiums to passenger terminals

Ideal combination of advanced acoustics and easy

Powerful with high efficiency \*NB picture shows lower section of speaker only!

Voice evacuation compliant as standard

Provision for inside mounting the optional line/ loudspeaker supervision board

**BOSCH LBC3432/01** 



Rugged Voice alarm compliant aluminium sound projector Excellent speech and music reproduction.

Simple power setting

 Provision for supervision board mounting Suitable for loop-through cabling

 (Suspended) ceiling and/or wall mounting Robust aluminum extrusion enclosure

Water and dust protected to IP66

driver sound pressure level 92dB IP rating power handling 20Watts IP66 100V dimensions (Ø x d) 146 x 200mm impedance 150Hz - 20kHz 2.6kg 5/10/20Watts white (RAL:9010) tappings colour

2 x 5:

100V

12Watts

180Hz - 20kHz

3/6/12Watts

60Watts

190Hz - 20kHz

60/30/15Watts

100V

• BS 5839-8 compliant

#### **BOSCH LBC3430/01**



Rugged Voice alarm compliant bi-directional sound projector.

Excellent speech and music reproduction

Simple power setting

2 speaker bi-directional system

 Provision for supervision board mounting Suitable for loop-through cabling

 (Suspended) ceiling and/or wall mounting · Robust aluminum extrusion enclosure

Water and dust protected to IP55

sound pressure level

dimensions (Ø x d)

IP rating

weight

colour

# loudspeakers: environmental

## **SOUNDTUBE XT550GN**



'The best in-ground speaker on the market' as used in Disneyland and a number of world famous theme parks.

UV scratch and weather-resistant with professional-grade components for long-lasting

 Patented BroadBeam® waveguide technology provides smooth 360° horizontal off-axis coverage Parefried broadbedn'to wavegyride rectificingly provides stroom see the factor of and reduces overall system costs
 One 133 mm (5.25 in) weatherproof polypropylene woofer with butyl rubber surround and one 25 mm (1 0 in) aluminum dome tweeter with integrated horn & mounting bracket

Weather-proof 5-position tap switch for 25/70.7/100 Volt applications with voice coil direct (4 Ohm) position. 32 Watt transformer included

Patented durable and sealed Zero Reflection™ enclosure with optional port vent for added frequency response

Multiple wire inlet locations for fast and easy daisy chaining

 Liquid-tight compression fittings for water-tight protection Stainless steel fasteners stainless steel & powder-coated grille driver 5.25 Woofer + 1 Tweeter power handling 60Watts 100V impedance 75Hz – 12kHz (port open) / 101Hz – 12kHz (port closed) frequency response tappings 3/6/12Watts sound pressure level 88 5dB IP ratina IP67 dimensions (Ø x d) 358 x 394mm 5.9kg weight colour aranite areen or sandstone

#### **APART ROCK20**



Stylish 2-way loudspeaker reproduces a Hi-Fi sound quality. Ideal for domestic (back garden) applications as well as flower beds in hospitals nursing homes etc. The polyester rock style housing is finished in grey and

 2 way 65 driver 20 Watt 100 Volt transformer with several power tappings. Weatherproof to IP64

driver 6.5 sound pressure level 92dB power handling 20W IP rating impedance 100V dimensions (h x w x d) 260 x 200 x 280mm 60Hz - 20kHz frequency response weiaht 3 75ka 20/10/5/2.5Watts/8Ohms

#### **DNH AQUA30T Underwater loudspeaker**



Ideal for water aerobics and syncro swimming. The Aqua 30T can be installed simply within a swimming pool to give stunning audio performance due to the efficiency of sound waves in water

- 100% Waterproof
- · Excellent performance in water Effective freq. res. 280Hz – 18kHz
- Unique design
- · Supplied with 5m cable

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#### **MONACOR MPR1**



1-channel microphone preamplifier.

- 1 microphone input XLR bal. or 6.3mm jack
- 1 XLR balanced or 6.3mm jack unbalanced output
- · Adjustable gain up to a max. of 50dB (balananced.)
- Clip LED
- 30V phantom power can be switched on additionally
- Output voltage 1V
- 230VAC -12VDC PSU included

#### **MONACOR MPA102**



1-channel low-noise microphone preamplifier

- 1 microphone input XLR balanced
- Gain 11 steps 20-70dB
- LED green/red for operation/peak
- Phantom power +24V can be switched on additionally Microphone phase can be switched
- Lo cut 100Hz hi cut 12kHz 12dB/oct. switchable
- 1 preamplifier output XLR
- · Level control and panorama control for mixing the
- microphone signal to the stereo line channel • 230VAC mains or 4 x 9V battery operation
- 116x55x125mm (WxHxD)

'U' height

no. inputs

'U' height

weight

output zones

nower supply

rack mountable

dimensions (h x w x d)

#### **MONACOR MPA202**



2-channel low-noise microphone preamplifier.

- 2 microphone inputs XLR balanced
- Gain 11 steps 20-70dB
- 2 level controls ±5dB
- LED green/red for operation/peak
- Phantom power +12V can be switched on additionally
- Microphone phase can be switched for each channel
- · Lo cut 15-240Hz continuously adjustable
- Subsonic filter 15Hz 18dB/oct.
- 2 line outputs XLR bal
- 2 line outputs RCA unbalanced
- 116x55x135mm (WxHxD)
- 230VAC -15VDC PSU included

#### **BEHRINGER XENYX802**



High quality cost effective and compact flat bed mixer

- Premium ultra low-noise high headroom analog mixer
- 2 state-of-the-art XENYX Mic Preamps comparable to stand-alone boutique preamps
   Neo-classic British 3-band EQs for warm and musical sound

- 1 post fader FX send per channel for external FX devices 1 stereo aux return for FX applications or as separate stereo input
- Main mix outputs plus separate control room phones and stereo CD/tape outputs CD/tape inputs assignable to main mix or control room / phones outputs
- High-quality components and exceptionally rugged construction ensure long life

no, inputs 4 inputs (2 mic/line 2 stereo/line) output zones Main mix outputs plus separate control room phones and stereo CD/tape outputs rack mountable

power supply 230V dimensions (h x w x d) 47(MAX) x 189 x 220mm

weight

10 input (All mic/line switchable)

1kg

2 zone output

230V AC & 24VDC

44 x 483 x 235mm

Included

1U

3.9kg

#### **JEDIA JMA1410**



Highly versatile 10 input pre-amp mixer with simple 2 channel routing function for each input.

Built in chime and 3 way priority facility.

- 10 input pre-amp mixe
- 2 zone output
- Each channel has individual master output selector • Each channel has line/mic/lowcut and phantom power selection
- · Input signal LED on each channel
- Input 1 overall priority input 2-3 selectable priority over other inputs
- Input 1-5 pin din inputs 2-10 –XLR Also separate RCA inputs 7-10 • 2 individually balanced XLR master outputs with bass/treble and led indicators
- AC and DC24V operation
- 1U high

APART PIR7600 (for remote control see amplifier ancillaries)



Innovative stereo pre-amp mixer with infra red remote control function, Ideal for church or conference applications where system control needs to be remote and not in line of sight. (see separate listing for IR accessories)

- 8 input stereo pre-amplifier/mixer
- Infra-red remote control with remote IR receiver facility (see ancillary section)
- · RJ45 wired remote facility
- 6 line 2 mic inputs (Mic 1 mic/line tel switchable) Vox mute on mic 1
- Separate Bass/Mid/Treble control for Mic and line input sections
- · 2 stereo output zones
- 1U hiah

no, inputs 6 line 2 mic inputs (Mic 1 mic/line tel switchable) output zones 2 stereo output zones rack mountable Included 230V AC vlagus rewog 44 x 483 x 275mm dimensions (h x w x d) 'U' height 10 weight 3.5kg

#### APART PM7400mk11



High quality pre-amp mixer with 2 stereo output zones.

- 6 line 2 mic inputs (Mic 1 mic/line tel switchable)
- Vox mute on mic 1
- Separate Bass/Mid/Treble control for Mic and line input sections
- · 2 stereo output zones
- 1U high

no, inputs 6 line 2 mic inputs (Mic 1 mic/line tel switchable) output zones rack mountable Included power supply 230V AC dimensions (h x w x d) 44 x 483 x 275mm 'U' height 10 weight 3.1kg

## **amplification & mixing**: pre-amp / mixers

output zones

power supply

'U' height

weiaht

rack mountable

dimensions (h x w x d)

#### **BOSCH PLE-10M2**



New highly versatile 2 zone pre-amp mixer.

- 2 separate zones 2 zone call station available PLE-2CS (see microphone section)
- Up to 8 Call station daisy chained using Cat 5 data cable
- 6 low noise balanced inputs for mic or line
- 3 separate line inputs Further 100volt input Telephone and a call station input with priority & vox
- Separate tone control for mic inputs and music inputs
   RJ45 connection for remote wall plate WP3S2Z (see ancillary section)
- Built-in chime for announcements Zone labelling and setting indicators
- Smart equalizing Speech and Music tone control
- AC and 24VDC operation
- Battery charger built-in
   LED VU Meter



Highly versatile mixer with comprehensive priority structures, Ideal for Doctors surgeries or applications where structured microphone priority is necessary

- 4 input mixer
- 3 input priority modes (full mix/first come first serve/ladder priority)
- Each input has tone and volume control
   Each input has a selectable filter for speech
- Each input has a direct output · 24v restoration on each output
- Interconnects for cascading multiple pre-amps
- · Headphone monitor VU meter
- 19 mounting brackets included
- 2U high

rack mountable Included 230VAC & 24VDC power supply dimensions (h x w x d) 100 x 430 x 270mm 'U' heiaht 2U weight

no. inputs

output zones

no. inputs 6 mic/line and 3 line 100volt input telephone and a call station input

2 zone

2U

4.5ka

4 Mic/line

4 direct output

8 inputs (6 line 2 mic)

4 zones

Included

230V

3U

3.83kg

Included

230VAC & 24VDC

100 x 430 x 270mm

#### **BOSCH LBB1925/10**



Highly versatile pre-amp with 6 zones and priority structure.

- 6 zone call system
- Allows multiple 6 zone call stations to be daisy-chained (see microphone section) Separate music and call channels with dedicated tone controls
- 6 levels of priority available
- Routable Music to zones Emergency/telephone inpu
- 24v override output on each zone Selectable alarm tone time signal and chimes
- 3 separate BGM inputs
- Further Mic/line input Headphone monitor
- VU meter • 19 mounting brackets included
- 2U high

no. inputs 7 inputs (1 priority mic 2 x 6 zones call stations 4 x line) output zones 6 zones rack mountable Included 230V AC & 24VDC power supply dimensions (h x w x d) 100 x 430 x 270mm 'U' height 2U weight

output zones

power supply

'U' height

weight

rack mountable

#### **CLOUD Z4ii** (for Cloud remote control panels see amplifier ancillaries)



World famous mixers offering a complete user friendly solution for multi-zone multi-function venues.

- 4 zone system 6 line inputs with preset gain controls
- · Line input 6 can be prioritised on a zone by zone basis
- Facility input on all zones Accepts active modules AF1 DM1 & LM1 (see ancillary section).
- Music level and source selection per zone. Also available via RSL6 remote control (see ancillary section) • 2 mic inputs with volume controls on front panel
- Allows you to select any input separately for each Zone Input for Cloud paging mic CDPM4 with priority and zone selection (see microphone section)
- Mic has chime facility
- Separate EQ for mic and music
- All mics have priority over music
- Optional EQ modules for Bose loudspeakers can be fitted to any zone

dimensions (h x w x d) 132 5 x 482 6 x 160mm

#### **CLOUD Z8ii** (for Cloud remote control panels see amplifier ancillaries)



World famous mixers offering a complete user friendly solution for multi-zone multi-function venues. • 8 zone system

- 6 line inputs with preset gain controls
- Line input 6 can be prioritised on a zone by zone basis Facility input on all zones
- Accepts active modules AE1 DM1 & LM1 (see ancillary section) • Music level and source selection per zone. Also available via RSL6 remote control (see ancillary section)
- · 2 mic inputs with volume controls on front panel Allows you to select any input separately for each Zone
- Input for Cloud paging mic CDPM4 with priority and zone selection (see microphone section) Mic has chime facility
- Separate FQ for mic and music All mics have priority over music
- Optional EQ modules for Bose loudspeakers can be fitted to any zone

no, inputs 8 inputs (6 line 2 mic) output zones rack mountable Included power supply 230V dimensions (h x w x d) 132 5 x 482 6 x 160mm 'U' height 3U weight 4.4kg

sales@commercialaudiosolutions.com

## **amplification & mixing**: pre-amp / mixers

#### **CLOUD CX163** (for Cloud remote control panels see amplifier ancillaries)



The CX163 is ideal for leisure, licensed and retail venues providing six stereo line level inputs one microphone input with paging mic for each zone. The CX163 has 2 stereo zone outputs and 1 mono utility output (ideal for utility areas such as toilets and fovers). Music level can be controlled remotely by the RL-1 on both stereo zones and when operating in mono each zone can be split into two sub-zones each with its own remote level control (RL-1). Once installed this compact 1U unit is extremely simple and convenient to operate

- Two zone stereo mixer with mono utility output
- Both stereo zones can be configured to run as mono
- Utility output is constant 0dB
- · Utility music source selectable via internal jumper • Easy to use
- Easy to install and configure
- 6 stereo line inputs
- $\bullet$  Line 6 priority over other input sources in Zone 1 only
- · Remote music mute
- Microphone access contacts for paging to all 3 zones
- · 100Hz high pass filter on all microphone inputs
- Two band microphone EQ
- Remote level control in each zone using RL-1 Front panel controls give microphone level music source select and volume
- Optional equaliser modules for Bose loudspeakers can be fitted to any output

call us now on: +44 (0)1663 767 888

no inputs

#### CLOUD CX263 (for Cloud remote control panels see amplifier ancillaries)



The CX263 is the ideal solution for leisure licensed and retail venues. This compact unit has 6 line level inputs and 2 mic inputs with paging microphone access on Mic 1. The CX263 has one stereo and two mono zones. The line inputs and mics can be independently routed to any output zone via the front panel controls alternatively the music signals on each zone can be controlled remotely by the RL-1 (level only) or RSL-6 (source and level). Additional remote control functions can be provided by the optional serial interface card (RS232) CDI-S200 which can control the music level and source on each zone access for Mic 1 on each zone and access for Mic 2 on each zone. This compact unit is easy to install and operate but has the flexibility to provide a solution for many differing environments.

- 1 stereo zone and 2 mono zones
- Easy to install and configure
- 6 stereo line inputs
- Line 6 priority over other input sources in all zones
- Remote music mute
- Paging microphone access for Mic 1 only
- · Microphone over music priority
- Two band microphone EQ behind front panel facia
- 100Hz high pass filter on all microphone inputs
- Two band music EQ per zone on the rear pane
- Front panel gives Mic 1 level Mic 2 level music level and music source selection controls
- Optional equaliser modules for Bose loudspeakers can be fitted to any output

#### AUDIO TECHNICA AT-MX341A - 4 channel automatic mic mixer



The AT-MX341a automatic mixer is ideal for meetings seminars teleconferencing worship services radio and TV broadcasting and A/V applications. All switching is under microprocessor control with proprietary algorithms for instant seamless operation. An individual priority pre-select switch for each mic/line channel allows choice of one-channel-at-a-time operation all channels active or any mix of moderator override. The last microphone on stays on so that ambient sound is never muted. Plus any number of SmartMixers can be linked to create a system for large multi-mic installations. The priority control system extends throughout the entire chain.

- Four Mic/Line inputs with individual priority pre-select switch for each channel Balanced inputs and output are individually switchable between mic and line-level
- Single threshold setting for all channels
- Individual gain controls for each channe
- Switchable manual mode overrides automatic functions Master output level control
- TTL logic output signals available to control speaker or camera switching tally lights etc.
- 12V phantom power individually selectable for each channel
- Off attenuation for each input adjustable to -20 dB Output level meter with Peak and RMS modes
- Mounts in a single 19 half-rack space
- Includes rack mount adapters

#### AUDIO TECHNICA AT-MX351 - 5 channel automatic mic mixer



The AT-MX351 automatic mixer is ideal for meetings seminars teleconferencing worship services courtroom proceedings radio and TV broadcasting and A/V applications. All switching is under microprocessor control with proprietary algorithms for instant seamless operation. An individual priority pre-select switch for each mic/line channel allows choice of one-channel-at-a-time operation all active or any mix of moderator override. The last microphone on stays on so that ambient sound is never muted. Plus any number of SmartMixers can be linked to create a system for large multi-mic installations. The priority control system extends throughout the entire chain.

- Four automatic Mic/Line inputs plus Aux in
- Automatic threshold setting
- 48V phantom power individually selectable for each channel
- Limiters on each mic channel prevent individual channel overload
   Balanced inputs and output selectable Mic/Line-level
- Individual gain controls for each channel
- · Switchable manual mode overrides automatic functions
- Master output level control
   Pre- or post-controller audio outputs from Mic/Line channels
- Off attenuation for each input adjustable to -40 dB
- · Sub-D connector for TTL output plus closure-control input for external control of each channel
- NOMA operation provided can be turned on/off
- · Output level meter with Peak and RMS modes Monitor headphone output with adjustable level
- Internal AC supply
- Mounts in a single 19 rack space
- Includes rack mount adapters

#### output zones rack mountable 230V power supply dimensions (h x w x d) 44(MAX) x 482 x 152mm 'U' height 10 3.5kg

7 inputs (6stereo/line 1 mic (per zone))

#### 8 inputs (6stereo/line 2 mic (per zone)) no. inputs output zones 3 zone: 1 x stereo + 2 x mono rack mountable power supply 230V dimensions (h x w x d) 44(MAX) x 482 x 152mm 'U' height 1U weight 3.5kg

## **amplification & mixing**: pre-amp / mixers

#### AUDIO TECHNICA AT-MX381 - 8 channel automatic mic mixer



Fauipped with optional computer control, the AT-MX381 SmartMixer® is the latest addition to Audio-Technica's family of automatic mixers. This microprocessor-controlled automatic mixer is designed to provide automatic mixing functions for installed sound house of worship broadcast and conference applications. Engineered for intuitive easy-to-use operation the new SmartMixer automatically keeps the number of open microphones to a minimum bringing background noise and feedback under control and providing increased clarity and audio.

· Eight balanced inputs allow use with both mic- and line-level signals

#### Each input provides

- Phantom power (48V) individually selectable
- Individual gain and volume controls
- Gate attenuation (adjustable)
- Low-cut filter (individually selectable via SmartMixer Software)
- An RS232 data port provides a connection point for a PC with included SmartMixer Software
- Compatible with Crestron® and AMX® systems
- External control capability enables the SmartMixer to activate other devices
- Force-On allows an external contact closure to force its associated input to turn on
- Force-Off allows an external contact closure to force its associated input to turn off
- Control Voltage Out a voltage appears when the associated input's gate opens or turns on
- Selectable NOMA (Number of Open Mics Attenuated) circuitry helps control feedback
   Priority pre-select feature allows priority of each microphone to be independently assigned
- Last Mic On selectable for continuous room ambiance
- Linking capability for 16 units (up to 128 channels)
- A direct output connection is available for each input
- Equipped with two audio outputs (one balanced one unbalanced) to drive amplification systems or other equipment
- Monitor headphone output with level control
- Basic functions are configured via front panel detailed settings through SmartMixer Software
- Mounts in a single 19 rack space via integral rack mount

#### APART PM1122 SYSTEM



Multi-functional pre-amp system controlle

Imagine a stereo amplifier that can be used in a supermarket with 10 check-out lines. A church with 5 mics that need a a noisegate or even a professional stereo zone. An AMX Crestron or cue-controlled meeting room?

Your wish has now become reality: the PM1122 can handle every application and makes the use of a whole string of pre-amps superfluous!

The PM1122 is a high grade manufactured and produced pre-amplifier. It offers a 4-level priority system with emergency input. It has a volume-adjustable chime and all controls are equipped with clear LED's for an easy overview It is possible to connect 5 mic/line inputs with phantom power each. There is a general noisegate for the mic inputs. Each signal is assignable to one or both

output zones through a dipswitch selector on the front of the unit. Every input has individual tone gain and volume control. The 5th mic/line input can be linked to or from another PM1122.

On the output side the user will find a 2-zone section. Both zones have a selector that makes it possible to switch between 4 line inputs. There is a music level and mic mix level and a bass and treble control per zone.

The PM1122 has multiple remote options

The PM1122R is an analogue wall control. It has music level and micro mix level control and a line input selector.

The PM1122RL; an analogue wall control with local input. This control has the same functions as the PM1122R but also has an XLR microphone input and a balanced line input with volume and tone control (mini jack).

Both wired wall controls can be connected with the pre-amplifier through UTP CAT5 cable

The PM1122 can also be controlled via a PC-application

The optional PM1122INT remote interface is connected to the pre-amplifier with a standard UTP CAT5 cable per output zone and to the PC with an RS-232 connection. PC software is included Even a wireless remote connection is a possibility! A wireless wall controller (PM1122WW) can be fixed just where the user wants it. It offers source selection

mic volume and music volume control The PM1122W is available in white and silver. This wall controller connects with the PM1122INT interface through the PM1122R an optional wireless antenna

that can be plugged into this interface Thanks to all these possibilities the PM1122 is an extremely versatile pre-amplifier that can be used in almost every imaginable situation!

#### PM1122 SYSTEM COMPONENTS

#### PM1122R - analogue wall-mount remote control



· Remote music level audio source select and mic mix

Flush panel wall-mounting

#### PM1122RL - wall-mount remote control with local audio input



- Remote music level audio source select and mic mix level Local audio input xlr (balanced mic) and 3.5mm jack
- (balanced line) Local tone and level control
- Flush panel wall-mounting

### **PM1122WW & WSLV** - wireless remote control panels



- Ultra-flat wireless wall control panel
- Source select mic volume and mic volume control
- · Available in white or silver

Battery operated no power chord required

### **PM1122RF** - receiver module for RF wireless remote panels

 Optional for use with PM1122WW wireless wall control panels Accepts multiple remote control panels per zone

#### PM1122INT - 2 zone digital remote interface



- Cat5 cable to PM1122
- SUB-D9 connector for RS232
- Up to 64 presets programmable via R\$232
  2x6 presets directly accessible via contact closure
- · Clear LED status on front panel

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## **amplification & mixing**: mixer amps

#### **BOSCH PLE-1MA030**



Built to last all Plena Public Address amplifiers feature excellent sound and speech intelligibility thanks to a smart equalizing approach and built-in limiters. On top of its clean-cut European design extra items like zone labelling and setting indicators make it a snap to use. Easy expandability with low-overhead cost guarantee that the system will be used for years to come

- 30 watt 100volt line
- · 4 low noise balanced inputs for mic or line with phantom power
- 3 separate line inputs
- Further 100volt input and Telephone input with priority
   RJ45 connection for remote wall plate WP3S2Z (see ancillary section)
- Contact closure and Vox priority
- · Built-in chime for announcements
- Zone labelling and setting indicators
- Smart equalizina AC and 24VDC operation
- LFD VU Meter

#### output power 30 watts 100v 70v and 8 ohm outputs impedance no. inputs 4 mic/line and 3 line output zones 1 zone rack mountable power supply 230VACPower supply dimensions (h x w x d) 100 x 430mm x 270mm 'U' height 2U weight 5kg

#### **BOSCH PLE-1MA060**



60 watt single zone

- 60 watt 100volt line
- 4 low noise balanced inputs for mic or line with phantom powe
- 3 separate line inputs
- Further 100volt input and Telephone input with priority
- RJ45 connection for remote wall plate WP3S2Z (see ancillary section)
- Contact closure and Vox priority
- · Built-in chime for announcements
- · Zone labelling and setting indicators
- Smart equalizingAC and 24VDC operation

output power		60 watt
impedance	100v	70v and 8 ohm output
no. inputs		4 mic/line and 3 line
output zones		1 zone
rack mountable		Included
power supply		230VAC
dimensions (h x w x d)		100 x 430mm x 270mm
'U' height		21
weight		8.5kg

#### **BOSCH PLE-1MA120**



120 watt single zone

- 120 watt 100volt line
- 4 low noise balanced inputs for mic or line with phantom powe
- 3 separate line inputs
- Further 100volt input and Telephone input with priority
- RJ45 connection for remote wall plate WP3S2Z (see ancillary section)
- Contact closure and Vox priority · Built-in chime for announcements
- · Zone labelling and setting indicators
- Smart equalizingAC and 24VDC operation

output powe 120 watts 100v 70v and 8 ohm outputs impedance 4 mic/line and 3 line output zones 1 zone rack mountable Included power supply 230VAC 100 x 430mm x 270mm dimensions (h x w x d) 'U' height 2U weight 10.5ka

120 watts

2 70ne

2U

10.5ka

Included

100v 70v and 8 ohm outputs

6 mic/line and 3 line

230VAC & 24VDC

230VAC & 24VDC

100 x 430mm x 270mm

100 x 430mm x 270mm

#### **BOSCH PLE-2MA120**



Highly versatile 120watt 2 zone version with a total of 9 inputs. 2 zone call station available

- 120 watt 100volt line
- 2 separate zones · 2 zone call station available PLE-2CS
- Up to 8 Call station daisy chained using Cat 5 data cable
- . 6 low noise balanced inputs for mic or line
- 3 separate line inputs
- Further 100volt input Telephone and a call station input with priority & vox
- Separate tone control for mic inputs and music inputs RJ45 connection for remote wall plate WP3S2Z (see ancillary section)
- Built-in chime for announcements
- Zone labelling and setting indicators Smart equalizing
   Speech and Music tone control
- AC and 24VDC operation
- Battery charger built-in
- LED VÚ Meter



32

**BOSCH PLE-2MA240** 

Highly versatile 240watt 2 zone version with a total of 9 inputs. 2 zone call station available

- 240 watt 100volt line
- 2 zone call station available PLE-2CS
- Call station uses Cat 5 data cable
- 6 low noise balanced inputs for mic or line
- 3 separate line inputs
- Further 100volt input Telephone and a call station input with priority & vox Separate tone control for mic inputs and music inputs
- · Built-in chime for announcements
- Smart equalizingSpeech and Music tone control
- Battery charger built-in
- LED VU Meter

# 240 watts 100v 70v and 8 ohm outputs 6 mic/line and 3 line

impedance no. inputs output zones 2 zone Included rack mountable

- RJ45 connection for remote wall plate WP3S2Z (see ancillary section)
- Zone labelling and setting indicators
- AC and 24VDC operation

## 'U' height 2U 12.5ka weiaht

power supply

dimensions (h x w x d)

output power

impedance

output zones

power supply

'U' height

weiaht

rack mountable

dimensions (h x w x d)

no. inputs

## **amplification & mixing**: mixer amps

output power

dimensions (h x w x d)

#### BOSCH PLN-2A10120



The Plena BGM/pagina system is the versatile all-in-one solution to cover all needs for background music (BGM) making announcements and paging people. This high-performance yet affordable unit is very easy to install and operate. It is typically used in shops supermarkets restaurants bars schools canteens gyms garages and other places where BGM creates the right atmosphere.

- All-in-one solution for background music and paging
- DVD/CD-player for video and audio
- Supports MP3 JPEG and multi-format video outputs
- FM/AM tuner with 10 presets and digital control
  Dual Zone 120 watt 100 volt line mixer amplifier
- Volume control per zone
   Remote control

impedance	100volt line and 80hm output
no. inputs	2 balanced XLR mic inputs 1 RCA line input
output zones	2 zone
rack mountable	Included
power supply	230VAC & 24VDC

120 watts

2U

5.95kg

144mm x 430mm x 320mm

'U' heiaht 3U 11.6kg weight

#### **APART MA35**



- · Compact 35 watt 100 volt line mixing amplifier
- 3 mic inputs with phantom power (via internal switch)
- 2 line inputs
- 2 level priority system (Vox and Contact closure)
- Integrated 2 tone chime with adjustable volume
- AC and 12Vdc operation Optional 19 mounting bracket available MA35-19
- RoHS Compliant

output power 35 watts output impedance 100 volt 70 volt and 80hm outputs no. inputs 4 (2mic 1mic/line 1line) output zones rack mountable optional power supply 230VAC & 12VDC dimensions (h x w x d) 88mm x 272mm x 286mm 'U' height 2U weight 4.75kg

#### **APART MA65**



- Compact 65 watt 100 volt line mixing amplifier
- 3 mic inputs with phantom power (via internal switch)
- 2 line inputs 2 level priority system (Vox and Contact closure)
- Integrated 2 tone chime with adjustable volume
  Built-in dynamic limiter (-3dB) AC and 24Vdc operation
- Optional 19 mounting bracket available MA35-19 RoHS Compliant

output power 65 watts output 100 volt 70 volt and 80hm outputs no, inputs 4 (2mic 1mic/line 1line) output zones 1 zone rack mountable optional 230VAC & 24VDC power supply 88mm x 272mm x 286mm dimensions (h x w x d) 'U' height

#### **APART MA125**



- 120 watt 100 volt line amplifier
- 4 microphone inputs and 4 line inputs
- Switchable Phantom power on mic inputs • Input 1 has 4 connection options Balanced XLR 5 pin Din or Euroblock on rear 6.3mm Jack
- Mic 2-3 balanced XLR and 6.3mmJack input Mic 4 by balanced XLR
- 4 x line inputs via RCA/phono. Input sensitivity matched for CD/Tuner/Aux
- Priority override of music on line 1 via vox mute variable level and by closing contact option (euroblock or 5pin din)
- LED Mute indicator Emergency override/Tel input (highest priority) via closing contact
- Input level control on Tel input
- · Graphic/loop output and Power amp input Bass Treble control
- 24VDC output for switching override relays
  LED VU Meter

output power 120 watts output 100 volt 70 volt and 80hm outputs impedance output zones 1 zone included 115 and 230VAC and 24VDC power supply dimensions (h x w x d) 88mm x 483mm x 230mm 'U' heiaht 211 weight

## **APART MA200**



- · 4 microphone inputs and 4 line inputs
- 4 loudspeaker output zones. Can be switched on/off with LED indicator
- Zone 4 can switch to music only mic only or both
  Switchable Phantom power on mic inputs
- Input 1 has 5 connection options Balanced XLR/combo input 5 pin Din or euroblock on
- Mic 2-3 -4 balanced XI R • 4 x line inputs via RCA/phono. Input sensitivity matched for CD/Tuner/Aux
- 3 level Priority system:
- 1. Emergency override/Tel input (highest priority) via closing contact
- Vox mute on input 1 overrides all other inputs (adjustable)
   Contact closure (euroblock or 5pin din) mutes all line inputs
- LED Mute indicator Input level control on Tel input
- Integrated 2 tone chime · Graphic/loop output and Power amp input Bass Treble control

• 19 rack mountable

24VDC output for switching override relays
 LED VU Meter

output power

impedance

'U' height

weight

no. inputs 4 microphone inputs and 4 line inputs output zones 4 70ne rack mountable included 115 and 230VAC and 24VDC power supply 88mm x 430mm x 356mm dimensions (h x w x d) 2U 12.1kg

100y/70y and 80hm speaker outputs

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## **amplification & mixing**: mixer amps

#### **APART MA200R**



MA200 – 200 watt full feature 100volt line mixer amplifier c/w built-in FM/AM digital

- 200 watt 100 volt line amplifier
- Built-in FM/AM digital tuner with 10 presets per band and memory scan facility
- 4 microphone inputs and 4 line inputs
- · 4 loudspeaker output zones. Can be switched on/off with LED indicator
- Zone 4 can switch to music only mic only or both
- Switchable Phantom power on mic inputs
   Input 1 has 5 connection options Balanced XLR/combo input 5 pin Din or euroblock on rear and 6.3mm Jack on front
- Mic 2-3 -4 balanced XLR
- 4 x line inputs via RCA/phono. Input sensitivity matched for CD/Tuner/Aux · 3 level Priority system:
- 1. Emergency override/Tel input (highest priority) via closing contact 2. Vox mute on input 1 overrides all other inputs (adjustable)
- 3. Contact closure (euroblock or 5pin din) mutes all line inputs
- · LED Mute indicator • Input level control on Tel input
- · Integrated 2 tone chime Graphic/loop output and Power amp input
- Bass Treble control
- 24VDC output for switching override relays
- LED VU Meter
- 19 rack mountable

## **APART MA200CDR**



MA200 – 200 watt full feature 100volt line mixer amplifier c/w built-in Programmable CD player and FM/AM digital tuner.

- Built-in CD player with MP3 playback program random repeat and continuous play Built-in FM/AM digital tuner with 10 presets per band and memory scan facility
- 4 microphone inputs and 4 line inputs
- · 4 loudspeaker output zones. Can be switched on/off with LED indicator
- Zone 4 can switch to music only mic only or both
- Switchable Phantom power on mic inputs
- Input 1 has 5 connection options Balanced XLR/combo input 5 pin Din or euroblock on rear and 6.3mm Jack on front
- Mic 2-3 -4 balanced XLR
- 4 x line inputs via RCA/phono. Input sensitivity matched for CD/Tuner/Aux · 3 level Priority system:
- 1. Emergency override/Tel input (highest priority) via closing contact
- 2. Vox mute on input 1 overrides all other inputs (adjustable) 3. Contact closure (euroblock or 5pin din) mutes all line inputs
- LED Mute indicator
- · Input level control on Tel input
- Integrated 2 tone chime
- Graphic/loop output and Power amp input Bass Treble control
- 24VDC output for switching override relays
- LFD VU Meter
- 19 rack mountable

200 watts output power no, inputs 4 microphone inputs and 4 line inputs output zones 4 zone rack mountable included 115 and 230VAC and 24VDC operation power supply dimensions (h x w x d) 88mm x 430mm x 356mm 'U' heiaht 2U 13.5kg weight

output powe

impedance

output zones

rack mountable

dimensions (h x w x d)

power supply

'U' height

weight

no. inputs

### CLOUD MPA-626 - General Purpose 150W Mixer Amplifier (for Cloud remote control panels see amplifier ancillaries)



The Cloud MPA-626 provides a package as comprehensive and as complete as any product in the range. This product offers 6 line inputs 2 mic inputs with same or descending priority and 150W of Cloud reliable power. Its integrated relays for 100V attenuation restoration chime sounder and the ability to directly connect virtually any music or line level input plus 2 microphones in pretty much any configuration provides the solution many venues might demand. A connection to accept active module DM-1 further extends the capabilities of this versatile product. The MPA-626 is the ideal solution for a wide range of Public Address applications such as factories warehouses sports halls etc.

- 6 line inputs with gain control
- Line 6 priority over other inputs
  2 Mic inputs with equal or descending priority
- Separate EQ for music and mic
   Music level selection with remote control RL-1
- Integrated relays for 100V attenuator restoration
- Integrated chime
- Connection for module DM-1
- Variable line output

Optional equaliser modules for Bose loudspeakers can be fitted

150w impedance 100v 4ohm 2ohm 6 line level + 2 x mic no. inputs output zones 1 zone rack mountable power supply 230VAC dimensions (h x w x d) 88 x 483 x 300mm 2U 'U' height 8.7kg weight

### JEDIA MOBILE35 (for all Jedia modules see amplifier ancillaries - CD modules not available for this model)



Compact 35 watt mixer amp with module slot and 230VAC and 12Volt DC operation.

- 35 watt 100 volt line Vox priority on Mic 1 and 2
- Module input slot (see related products)
- 230VAC and 12v DC operation

35 watts output power 100 volt and 4-160hm outputs impedance 3 microphone inputs + 2/3 Line inputs possible no. inputs output zones rack mountable no power supply 230VAC &12VDC dimensions (h x w x d) 88mm x 375mm x 260mm 'U' height weight 5.4kg

## **amplification & mixing**: mixer amps

### JEDIA MOBILE60 (for all Jedia modules see amplifier ancillaries - CD modules not available for this model)



200 watts

4 zone

2U

12.5kg

included

100v/70v and 80hm speaker outputs

4 microphone inputs and 4 line inputs

115 and 230VAC and 24VDC operation

88mm x 430mm x 356mm

Compact 60 watt mixer amp with module slot and 230VAC and 12Volt DC operation.

- 60 watt 100 volt line
- Vox priority on Mic 1 and 2
- · Module input slot (see related products)
- 230VAC and 12v DC operation

60 watts 100 volt and 4-160hm outputs impedance no, inputs 3 microphone inputs + 2/3 Line inputs possible output zones 1 zone rack mountable power supply 230VAC &12VDC 88mm x 375mm x 260mm dimensions (h x w x d) 'U' height weiaht 6.6kg

#### JEDIA JPA1120 (for all Jedia modules see amplifier ancillaries)



JPA1120 - Versatile 120 watt 100 volt line mixer amplifier with module input slot.

- 120 watt 100 volt line
- 4 microphone inputs + 4 Line inputs possible
- Inputs 2 3 and 4 Mic/line switchable
- Vox priority on Mic 1
- Telephone input
- Music on Hold
- Module input slot (see related products)
- Pre amp out/amp in
- 3 selectable speaker zones
- VU meter
- AC and 24v DC operation

weight

output power

impedance 100v no. inputs 4 microphone inputs + 4 Line inputs possible output zones 3 x speaker circuits rack mountable optional power supply 230VAC &24VDC 110mm x 420mm x 320mm dimensions (h x w x d) 'U' height 3U weight 12kg

120 watts

#### **JEDIA JPA1120A** (for all Jedia modules see amplifier ancillaries)



- 120watt 100 volt line operation
- 5 independently attenuated output zones
- Individually addressable zones + all call from amp or remote call station. See JRC10 microphone section
- Priority mic input 1 via 5 pin din (JPTT10 see microphone section)
- 24vdc output to operate override relays
   3 mic/line inputs XLR with variable input gain control selectable phantom power and each with selectable (by dip switch) priority over music
- 2 further RCA line inputs
- · Bass and treble control on each input
- Telephone paging input with night ringer facility for factories etc Module input for various audio source modules see ancillary products for JTP10 tuner CP10 cassette JCR10 cass/tuner JDM10A digital message store JCP10A CD JCDR10A CD/Tuner
- RCA Record/AFILS output
- 6.3mm Jack Pre-amp out and 6.3mm Jack Amp in
- · Variable level chime facility Emergency override by closing contact
- Two tone variable volume siren Direct 4ohm output
- Remote power activation via closing contact LED VU Meters
- AC and 24VDC operation

120 watts output power impedance 100v no. inputs 7 (1 priority mic 1x five zones(up to 3) 3 mic/line 2 line) output zone: rack mountable included power supply 230VAC & 24VDC dimensions (h x w x d) 133mm x 430mm x 352mm 'U' height 3U 13kg

#### JEDIA JPA1240A (for all Jedia modules see amplifier ancillaries)



- 240watt 100 volt line operation
- 5 independently attenuated output zones
- Individually addressable zones + all call from amp or remote call station. See JRC10 related products Priority mic input 1 via 5 pin din (JPTT10 - see related products)
- 24vdc output to operate override relays
- 3 mic/line inputs XLR with variable input agin control selectable phantom power and each with selectable (by dip switch) priority over mus
- Bass and treble control on each input
- Telephone paging input with night ringer facility for factories etc. Input slot for Cat5 data receiver to accept up to 3 x 5 zone remote call stations. See JRC10 in related products
- Module input for various JDM audio source modules see related products for JTP10 tuner CP10 cassette JCR10 cass/tuner JDM10A digital message store JCP10A CD JCDR10A CD/Tuner
- RCA Record/AFILS output

2 further RCA line inputs

- 6.3mm Jack Pre-amp out and 6.3mm Jack Amp in Variable level chime facility
- · Emergency override by closing contact Two tone variable volume siren
- Direct 4ohm output
- Remote power activation via closing contact LED VU Meters
- AC and 24VDC operation

output power 240 watts 100v impedance 7 (1 priority mic 1x five zones(up to 3) 3 mic/line 2 line) no. inputs output zones 5 zones rack mountable included 230VAC & 24VDC power supply 133mm x 430mm x 352mm dimensions (h x w x d) 'U' height 3U

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14kg

## **amplification & mixing**: mixer amps

#### JEDIA JPS3600 (for all Jedia modules see amplifier ancillaries)



- 360 watt 100 volt line
- 4 mic/line inputs and 3 dedicated line inputs
- Module input for various JDM audio source modules see related products for JTP10 tuner JCP10 cassette JCR10 cass/tuner JDM10A digital message store JCP10A CD JCDR10A CD/Tuner
- Input 1 XLR (rear) and 6 3mm Jack (front) has Vox priority over all inputs • Input 2 XLR and Euroblock terminals with contact closure for override of aux and
- module signals • Input3 and 4 Euroblock terminals with contact closure for override of aux and
- module signals Inputs 1-4 have switchable phantom power and variable mute/ chime and siren
- levels all inputs are balanced.

   Inputs 5-7 RCA line level inputs unbalanced
- 5 individually attenuated speaker output circuits + 1 direct 100volt line and 80hm
- Bass and Treble control
- Variable speed cooling fan
- Thermal protection
- Short circuit protection
- Remote power activation via closing contact • RCA Pre-amp out and RCA Amp in
- LED VU Meters
- AC and 24VDC operation.

- 3U high RoHS Compliant

output power 360 watts 100volt line and 80hm output impedance no. inputs 7 (4 mic/line inputs and 3 dedicated line inputs) output zones 5 zones rack mountable included 230VAC & 24VDC power supply dimensions (h x w x d) 133mm x 430mm x 352mm 'U' height 311 19.5kg weight

#### JEDIA JPS4800 (for all Jedia modules see amplifier ancillaries)



- 480 watt 100 volt line
- 4 mic/line inputs and 3 dedicated line inputs
- Module input for various JDM audio source modules see related products for JTP10 tuner JCP10 cassette JCR10 cass/tuner JDM10A digital message store JCP10A CD JCDR10A CD/Tuner
- Input 1 XLR (rear) and 6.3mm Jack (front) has Vox priority over all inputs
- Input 2 XLR and Euroblock terminals with contact closure for override of aux and module signals
- Input3 and 4 Euroblock terminals with contact closure for override of aux and module signals
- Inputs 1-4 have switchable phantom power and variable mute/ chime and siren
- levels all inputs are balanced

  Inputs 5-7 RCA line level inputs unbalanced
- 5 individually attenuated speaker output circuits + 1 direct 100volt line and 80hm
- Bass and Treble control
- Variable speed cooling fan
- Thermal protection · Short circuit protection
- Remote power activation via closing contact
- RCA Pre-amp out and RCA Amp in
- LED VU Meters AC and 24VDC operation.
- 3U high
   RoHS Compliant

output power 480 watts impedance 100volt line and 80hm output no. inputs 4 mic/line inputs and 3 dedicated line inputs output zones 5 zones rack mountable included 230VAC & 24VDC power supply

133mm x 430mm x 352mm

3U

21kg

dimensions (h x w x d)

'U' height

weight

## **amplification & mixing**: low impedance mixer amps

#### **DENON DNA100P**



The DN-A100P is the P Series' entry level mixer amplifier for commercial installation. Uncomplicated layout and simple operation along with 70w per channel power output make it an entirely suitable option for two channel amplification in pubs bars shops gyms and other small to medium sized AV environments.

- 70 watts per channel into 4 ohms
- 2 speaker circuits with A/B switching
- IR remote control supplied
- 5 line inputs RCA
- 2 tape circuits Phono input
- Tone controls
- 3U

#### **DENON DNA200P**



For environments where sound quality and power output are of high importance the DN-A200P stereo integrated amplifier is the perfect solution. Twin switchable speaker outputs multiple in/outs phono input and IR control render it perfect for high end corporate av education and entertainment venues.

- 85 watts per channel into 4 ohms
- · 2 speaker circuits with A/B switching • IR remote control supplied
- 5 line inputs RCA
- 2 tape circuits
- Tone controls
- Full record out
- 3U

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## **amplification & mixing**: low impedance mixer amps

#### **DENON DNA300P**



For environments where sound quality and power output are of high importance the DN-A300P stereo integrated amplifier is the perfect solution. Twin switchable speaker outputs multiple in/outs phono input and IR control render it perfect for high end corporate av education and entertainment venues.

- 100 watts per channel into 4 ohms
- 2 speaker circuits with A/B switching
- IR remote control supplied
- 5 line inputs RCA
- 2 tape circuits
- Phono input
- Tone controls
- Full record out 3U
- CLOUD 36/50 integrated two zone plus utility mixer amplifier (for Cloud remote control panels see amplifier ancillaries)



The Cloud 36/50 provides both power and control for venue sound systems from a single cost effective unit. Ideal for shops pubs restaurant and bars the 36/50 combines the features and versatility of our best selling zone mixer with the reliability of our rugged 50W amplifier modules. This remarkable product offers 6 music source connections plus 1 microphone input fully configurable into 2 main output zones plus a third 'utility' output all at 50W. This third output may be used to provide sound in peripheral areas such as storerooms toilets foyers and corridors or it can be used as a slave to zone 1 effectively doubling the power available to that zone.

- 2 zone mixer/amplifier with utility output
- 6 line inputs 1 mic input with paging options for zone 1 zone 2 and utility output
- Music level and source selection with remote control RSL-6
   3 x 50W for Z1 Z2 and utility output with dynamic clip limiters on every amplifier
- The 50W utility amplifier can provide zone 1 with 100W Optional 3 x 40W 100V or 70V internal module (CXL-3120)
- Separate EQ for music and mic signals
- Optional equaliser modules for Bose loudspeakers can be fitted to any output

#### **CLOUD 46/50** - 4 zone integrated mixer amp with 4 x 50W amps (for Cloud remote control panels see amplifier ancillaries)



The 46/50 offers simple direct connection of two microphones and six music sources which can be routed to feed four different output zones with up to 50W of clean audio power. The 46/50's music programme and level can be controlled remotely. A paging facility is avilable with the optional CDPM paging mic. So if a simple one-box solution is required for a four zone venue look no further than the Cloud 46/50.

- 4 zone mixer/amplifier
- 4 x 50W with dynamic clip limiters on every zone
- Mic 1 priority over Mic 2
- Line 6 input priority (zone 1 only) with adjustable release time
- 6 line inputs 2 mic inputs with voice operated priority over the music
   Music level and source selection with remote control RSL-6 (or RL-1 -level only)
- Facility input (zone 1 only) for active modules DM-1 and LM-1
   Amplifier link feature when used on 2 zone or 3 zone systems
- Dedicated CDPM paging mic with chime available
- Optional equaliser modules for Bose loudspeakers can be fitted to any zone
- Optional 4 x 70W 100V or 70V internal module (CXL-4160)
- Remote music mute for Fire Alarm interface Installer settings behind an anti-tamper panel
- Forced cooling by vari-speed fan

## amplification & mixing: slave amps (single channel)

output power

impedance

output power

no. inputs

#### **APART PA240P**



Extremely flexible rugged and cost effective slave amplifier

- Ultra reliable 240w 100volt line amplifier High quality audio amp.
- Overload short circuit and heat protection 0dB Program input and priority input c/w variable volume
- Bass and treble control
- 24V output for override relay activation
- High quality Combo XLR/Jack inputs Priority Input connections via Combo or Euroblock
- AC and 24VDC operation
- Variable speed fan
- LED VU Meter
- 19 rack mounts

output zones 1 zone rack mountable included nower supply 230VAC & 24VDC dimensions (h x w x d) 88mm x 430mm x 366mm 'U' height 2U 14.1kg weight

#### **ELECTRO-VOICE PA1250T -** 1 x 250w single channel power amplifier



The Electro-Voice® PA1250T is from the PA series of professional commercial audio amplifiers. The direct path airflow design reduces the heat build-up significantly and allows for more reliable operation in slim two rack space chassis. The audio performance of the PA1250T is superior and fulfills the requirements in many demanding long term applications from sound reinforcement paging or life safety installations.

- 1 x 250watt @ 100volt line or 250 watts @ 4ohm
- · Stepped rear level controls
- Complete protection package
- Selectable 50Hz or 300Hz high pass filter for each channel
   Phoenix type input and output connectors
- High efficiency circuit design

impedance 100 70 & 50 voltoutputs no. inputs Program input via phoenix connector output zones 1 zone rack mountable included 230VAC & 24VDC power supply 88mm x 483mm x 406mm dimensions (h x w x d) 'U' heiaht 2U weight 16.5kg

### www.commercialaudiosolutions.com

240 watts output

250 watts output

100v 70v and 8ohm outputs

Program and priority input

## **amplification & mixing**: slave amps (single channel)

#### JDM PA112CP



Compact 120watt 100volt slave amp using high quality Toroidal transformers for excellent audio as well as sturdy reliable performance

Program with priority override input

 Local monitor output Current protection

· Overheat and short circuit protected

 Soft start circuitry Automatic variable speed fan

· 400Hz speech filter switch

AC and 24v DC operation

· LED VU Meter

#### JDM PA124CP



Compact 240watt 100volt slave amp using high quality Toroidal transformers for excellent audio as well as sturdy reliable performance

· Program with priority override input

Local monitor output

 Current protection · Overheat and short circuit protected

Soft start circuitry

Automatic variable speed fan

400Hz speech filter switch

· AC and 24v DC operation · LED VU Meter

• 19 rack mounts



JDM PA148CP

Compact 480watt 100volt slave amp using high quality Toroidal transformers for excellent audio as well as sturdy reliable performance

• Program with priority override input

Local monitor output

Current protection

Overheat and short circuit protected

• Soft start circuitry

• Automatic variable speed fan · 400Hz speech filter switch

AC and 24v DC operation

· LED VU Meter

#### **BOSCH PLE-1P120**



New cost effective 120 watt 100volt slave amplifier from Bosch.

Very high audio performance power amps

Can be used to boost Plena Voice alarm systems with system monitoring
 XLR and jack input with XLR and Jack loop through outputs

100volt line input. Ideal for remote location booster amps

· Temperature controlled fan AC and 24VDC operation

• Built-in battery charger

LED VU Meter

output power 100v 70v and 8 ohm outputs impedance no. inputs 1 XLR input output zones rack mountable power supply 230VAC & 24VDC dimensions (h x w x d) 100mm x 430mm x 270mm

output powe

impedance

output zones

rack mountable

dimensions (h x w x d)

power supply

'U' height

output power

impedance

output zones

power supply

output power

impedance

output zones

power supply

'U' height

'U' height

output powe

output power

weight

weight

weight

rack mountable

dimensions (h x w x d)

no. inputs

'U' heiaht

weight

rack mountable

dimensions (h x w x d)

no inputs

weight

no. inputs

#### **BOSCH PLE-1P240**



New cost effective 240 watt 100volt slave amplifier from Bosch.

Very high audio performance power amps

Can be used to boost Plena Voice alarm systems with system monitoring

 XI R and jack input with XI R and Jack loop through outputs 100volt line input. Ideal for remote location booster amps

Temperature controlled fan

AC and 24VDC operation

• Built-in battery charges

· LED VU Meter

100v 70v and 8 ohm outputs impedance no. inputs 1 XLR input output zones 1 zone rack mountable included power supply 230VAC & 24VDC dimensions (h x w x d) 100mm x 430mm x 270mm 'U' height 2U weiaht 12.5ka

#### **BOSCH LBB1938/20**



Legendary Bosch Quality solid performing slave amplifiers

480 watts 100 valt line

Very high audio performance power amps

Can be used to boost Plena Voice alarm systems with system monitoring

XIR and jack input with XIR and Jack loop through outputs

100volt line input. Ideal for remote location booster amps

24v override relay output on 480watt model

 Temperature controlled fan AC and 24VDC operation

LED VU Meter

impedance 100v 70v and 8 ohm outputs no. inputs XLR and jack input output zones rack mountable included power supply 230VAC & 24VDC dimensions (h x w x d) 145mm x 430mm x 370mm 'U' height

call us now on: +44 (0) 1663 767 888

## amplification & mixing: slave amps (multi-channel)

output powe

impedance

output zones

rack mountable

dimensions (h x w x d)

power supply

output powe

impedance

output zones

power supply

'U' height

weiaht

output power

impedance

output zones

ewoa tuatuo

no. inputs

rack mountable

dimensions (h x w x d)

no. inputs

'U' heiaht

weight

no. inputs

#### **APART PA2240BP**

120 watts output

230VAC & 24VDC

240 watts output

230VAC & 24VDC

480 watts output

230VAC & 24VDC

88mm x 483mm x 374mm

88mm x 483mm x 374mm

88mm x 483mm x 374mm

1 zone

2U

10.5kg

1 zone

2U

12.5kg

1 zone

2U

15.5ka

120 watts

1 zone

211

10.5kg

240 watts

480 watts output

3U

25kg

included

included

included

included

100 volt 70 volt and 80hm outputs

Program with priority override input

100 volt 70 volt and 80hm outputs

Program with priority override input

100 volt 70 volt and 80hm outputs

Program with priority override input



The Apart PA2240BP is a bridgeable and fully equipped 2 channel 100 Volt power amplifier

The amplifier can be used as a double channel amplifier of 2 x 240 Watts in 100 Volt or it can be bridged into a 1 x 480 Watt power amplifier in 100 Volt. Both channels have a program and priority input with independent gain control. The priority input can be activated by contact closure and as soon as this contact is closed 24V output power becomes available (e.g. can be used to switch the relay of a volume control). Both channels of the amplifier have

The PA2240BP operates on 230V AC and 24V DC. Significantly the unit can easily be used in evacuation systems compliant to the EN60849 regulation.

As all the controls of the PA2240BP are located at the back panel changes of the amplifier's settings by unauthorised or unqualified people will most likely be prevented.

Use of quality components and the built in dynamic limiter at -3dB certainly contributes to increased reliability.

Input: Program: Balanced Furoblock 0 dB -10k - Adjustable volume by trimmer

• Input: Priority: Balanced Euroblock 0 dB - 10k - Adjustable volume by frimmer

 Output: Loudspeaker output: channel 1 & 2: 100V - 70V 50V - 4W (monitor) • Output: Priority output: 2 x 24V activated by contact closure (Max 0.6A)

Output power RMS Rated: 2 x 240 watt or 1 x 480 watt (bridged mode)
 Tone control: Bass: 100 Hz: +10 dB / -14 dB

• Tone control: Treble: 10 kHz: +10 dB / -14 dB

 Frequency response: 35 Hz - 22 kHz Signal to Noise ratio: > 95 dB

Total Harmonic Distortion : < 0.5%</li>

• Dimensions (H x W x D) : 88 x 430 x 412 mm (Detachable 19 brackets included)

#### JDM PA212CP



Compact 2 channel 120watt 100volt slave amp using high quality Toroidal transformers for

excellent audio as well as sturdy reliable performance

Program with priority override input · Input routing for parallel connection

 Series connection for single output capability Local monitor output

· Current protection

Overheat and short circuit protected

 Soft start circuitry Automatic variable speed fan

400Hz speech filter switch

 AC and 24v DC operation LFD VII Meter

19 rack mounts

JDM PA224CP



Compact 2 channel 240watt 100volt slave amp using high quality Toroidal transformers for excellent audio as well as sturdy reliable performance.

Program with priority override input

Input routing for parallel connectionSeries connection for single output capability

· Local monitor output

 Current protection Overheat and short circuit protected

Soft start circuitry

 Automatic variable speed fan 400Hz speech filter switch

AC and 24v DC operation

LFD VII Mete

• 19 rack mounts

#### **ELECTRO-VOICE PA2250T -** 2 x 250watt 100 volt line power amplifier



The Electro-Voice® PA2250T is from the PA series of professional commercial audio amplifiers. The direct path airflow design reduces the heat buildup significantly and allows more amplifier channels and output power in slim two rack space chassis. The audio performance of the PA2250T is superior and fulfills the requirements in many demanding long term applications from sound reinforcement paging or life safety instal

2 x 250watt @ 100volt line or 270 watts @ 4ohm

2U rack space chassis

Stepped rear level controls

 Bridged mono output gives single 540watt output at 80hm Complete protection package • Selectable 50Hz or 300Hz high pass filter for each channel

Phoenix type input and output connectors

• High efficiency circuit design

'U' height weight

rack mountable included 230VAC & 24VDC power supply 88mm x 483mm x 406mm dimensions (h x w x d) 2U

2 x 120 watt outputs

230VAC & 24VDC

2 x 240 watt output

230VAC & 24VDC

2 x 270 watts output

2 x 430 watts output

100 70 50 volt & 40hm

100 70 50 volt & 40hm outputs

2 x Program input via phoenix connector

2 separate channels or 1 x bridged 8ohm

88mm x 483mm x 374mm

100 volt 70 volt and 80hm outputs

Program with priority override input

88mm x 483mm x 374mm

2 zones

included

2U

15kg

2 zones

included

2U

18kg

23.5kg

100 volt 70 volt and 80hm outputs

Program with priority override input

### ELECTRO-VOICE PA2400T - 2 x 400watt 100 volt line power amp



amplifiers. The direct path airflow design reduces the heat buildup significantly and allows for more amplifier channels and output power in slim two rack space chassis. The audio performance of the PA2400T is superior and fulfills the requirements in many demanding long term applications from sound reinforcement paging or life safety installations.

The Electro-Voice® PA2400T is from the PA series of professional commercial audio

• 2 x 430watt @ 100volt line or 430watts @ 40hm

• 2U rack space chassis

· Stepped rear level controls

• Bridged mono output gives single 860watt output at 80hm

 Complete protection package Selectable 50Hz or 300Hz high pass filter for each channel
 Phoenix type input and output connectors

· High efficiency circuit design

impedance no, inputs output zones rack mountable power supply

2 x Program input via phoenix connector 2 separate channels or 1 x bridged 80hm included 230VAC & 24VDC dimensions (h x w x d) 88mm x 483mm x 406mm 2U

'U' heiaht weight

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26kg

## amplification & mixing: slave amps (multi-channel)

#### JDM PA412CP



Highly versatile 4 x 120watt per channel 100 volt slave amplifier. Utilizes toroidal transformers for excellent audio reproduction

 Program with priority override input Input routing for parallel or multiple connection

Series connection for single or double output capability

 Local monitor output Current protection

Overheat and short circuit protectedSoft start circuitry

Automatic variable speed fan
400Hz speech filter switch

AC and 24v DC operation

LFD VU Meter

• 19 rack mounts

#### JDM PA424CP



Highly versatile 4 x 240watt per channel 100 volt slave amplifier. Utilizes toroidal transformers for excellent audio reproduction

Program with priority override input

Input routing for parallel or multiple connection

Series connection for single or double output capability

Local monitor output

Current protection

· Overheat and short circuit protected

Soft start circuitry

Automatic variable speed fan400Hz speech filter switch

AC and 24v DC operation

· LED VU Meter

• 19 rack mounts

no. inputs Program with priority override input output zones rack mountable power supply dimensions (h x w x d) 'U' heiaht weight

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output power

impedance

output zones

power supply

output power

impedance

'U' height

weight

dimensions (h x w x d)

no. inputs

#### **CLOUD CX-A4**



The Cloud CX-A4 is a versatile and innovative multi channel amplifier. It exhibits low levels of noise and distortion and utilises the highest quality components ensuring outstanding sound quality and rugged durability. Plug in VCA modules are available for applications where remote level control is required and a combined VCA and peak limiter module is available. Line distribution systems of both 70V and 100V are also catered for with the optional high performance transformer modules

• 4 channel 4 x 120W

Connection for one of three optional modules

VCA-2 2 channel remote level control

channel equaliser module for Bose model 8 or model 32 loudspeakers

Optional external 100W 70V/100V line transformer module and rack housing available (CXL100T & CLX800)
 Input routing options simplify terminations when some channels share a signal

Comprehensive protection ciruitry

LFD indicators for signal clip and protect

• Forced cooling by 2 speed DC fan

#### **CLOUD CX-A6**



The Cloud CX-A6 is a versatile and innovative multi channel amplifier. It exhibits low levels of noise and distortion and utilises the highest quality components ensuring outstanding sound quality and rugged durability. Plug in VCA modules are available for applications where remote level control is required and a combined VCA and peak limiter module is available. Line distribution systems of both 70V and 100V are also catered for with the optional high performance transformer modules.

Channel 6 x 120W

• Connection for one of three optional modules

VCA-2 2 channel remote level control

channel equaliser module for Bose model 8 or model 32 loudspeakers

Optional external 100W 70V/100V line transformer module and rack housing available (CXL100T & CLX800)
 Input routing options simplify terminations when some channels share a signal

Comprehensive protection ciruitry

· LED indicators for signal clip and protect

• Forced cooling by 2 speed DC fan

#### **CLOUD CXA450**



The Cloud CX-A450 is a versatile and innovative multi channel amplifier. It exhibits low levels of noise and distortion and utilises the highest quality components ensuring outstanding sound quality and rugged durability. Plug in VCA modules are available for applications where remote level control is required. Line distribution systems of both 70V and 100V are also catered for with the optional high performance transformer modules.

• Optional modules for remote level control of any channel VCA-5

• Optional equaliser modules for Bose loudspeakers can be fitted to any channel

Optional is a 4 x 40W 70V/100V internal module (CXL-4160)
Optional external 40W 70V/100V line transformer module available (CXL-40T)

• Input routing operations simplify terminations when some channels share a signal • Comprehensive protection circuitry including dynamic clip protection

LED indicators for signal clip and protect

• Forced cooling vari-speed DC fan

## **amplification & mixing**: slave amps (multi-channel)

#### **CLOUD CXA850**

4 x 120 watt output

230VAC & 24VDC

4 x 240 watt output

230VAC & 24VDC

133mm x 483mm x 377mm

4 zones

included

311

28ka

100 volt 70 volt and 80hm outputs

133mm x 483mm x 377mm

4 zones

3U 25kg

100 volt 70 volt and 80hm outputs

Program with priority override input



The Cloud CX-A850 is a versatile and innovative multi channel amplifier. It exhibits low levels of noise and distortion, and utilises the highest quality components ensuring outstanding sound quality and rugged durability. Plui in VCA modules are available for applications where semote level control is required. Line distribution systems of both 70V and 100V are also catered for with the optional high performance transformer modules.

- 8 channel 8 x 50W
- Optional modules for remote level control of any channel VCA-5
- Optional equaliser modules for Bose loudspeakers can be fitted to any channel Optional external 40W 70V or 100V line transformer module available (CXL-40T)
- The CXL-800 is a 2U rack mounted housing for 8 x CXL-40T
   Input routing options simplify terminations when some channels share a signal
- Comprehensive protection circuitry including dynamic clip protection
   LED indicators for signal clip and protect
- Forced cooling vari-speed DC fan

#### **APART PA8250**



This versatile 19 - 8 channel amplifier is compact but yet powerful and provides 8 x 250 W of program power in 4 Ohm use. For higher power requirements the amp can be bridged per 2 channels with 4 x500 W in 8 Ohm bridged mode as a result.

It has very good cooling thanks to 2 high efficiency fans with 3-step control that kick in once the temperature exceeds 50°C.

Thanks to its input signal linking it is possible to get one single signal through all the output channels. The high pass filters takes care of unwanted rumble or low frequency sound

Inputs can be connected through RCA-cinch or Euroblock. The 8 speaker terminals are Euroblock as well so there is no need for soldering in those difficult on-site conditions.

The PA8250's 8-channel architecture makes it easy to set up volumes for all 8 zones individually. This power amp is especially suitable for multiroom- or matrix systems or places like cafés sportsbars or pubs: venues where you prefer different music levels in different areas

A combination with the APart PT8210 transformer provides a maximum of flexibility to build a custom designed system of 100 V and low-impedance zones. A solution which will allow any installer to face up to the most challenging of circumstances

- Amplifier type: 8 channel bridgeable
- Output power per channel from 20Hz to 20 kHz : 140 W
- RMS program power into 8 Ohms : 250 W RMS program power into 4 Ohms: 500 W
- RMS program power into 8 Ohms 2 channels bridged: minimum 4 Ohms
- Input impedance balanced input: 20 kOhms
- Input impedance unbalanced input: 10 kOhms
- Input sensitivity balanced & unbalanced: 0 dBv
- Routing: Linkable stereo inputs stereo to mono mix
- Routing: Bridge mode adjacent channels only (e.g. 1&2 3&4)
   Protection circuits: Signal limiter overload short-circuit DC overheat softstart
- Power supply: 230 VAC/50Hz
- Dimensions Height x Width x Depth: 132 x 483 x 484 mm
- Weight: Net: 25 3 kg (gross shipping weight 29 8 kg)

#### **APART PT8120**



The PT8120 is an 8 channel transformer unit. It is built using 8 high grade quality toroidal audio transformers guaranteeing low distortion high bandwidth and full galvanic isolation between the audio sources and the 100 V speaker lines. This transformer is an ideal solution for circumstances where an installer has to design a multiple-zone infrastructure.

The PT8120 has a built-in speaker for monitoring each of the 8 channels. Zone selection can be done at the touch of a fingertip through the buttons on the front panel. By means of the attenuator switch you can adjust the output power of the monitor panel and get a perfect view on the level settings in the

A combination with the APart PA8250 power amp provides a maximum of flexibility to build a custom-designed system of 100V and low impedance zones. A solution that will allow any installer to face up to the most challenging of circumstances!

- Number of channels : 8
- Power: 120 W in 100 V per channel
- Input impedance: 4 or 8 ohms selectable Output voltage: 50 - 70 - 100V selectable
- Frequency response: 28 Hz 20 kHz (0/-3 dB)
- Total harmonic distortion: <0 2%
- Monitor speaker power : 2 W
- Sensitivity: -6 0 +6 dB selectable
   Protection: DC input protection anti clip protection
- Power combinations with PA8250 8 channel amplifier:
   120W/100V: 1 channel of PA8250 into 8 ohm transformer input 100 V out
- 240W/100V: 1 channel of PA8250 into 28 ohm transformers 8 ohm inputs wired in parallel 2 x 50V outputs in series.

## **amplification & mixing**: low impedance power amps

dimensions (h x w x d)

'U' height

weight

### APART PA2120mk11



Silent and ultra slim 1u power amplifier

- Silent and reliable stereo power amplifier 2 x 120 watt RMS
- Will drive at 2 4 or 8 ohms
- Impedance selector Monitor phone output
- Convection cooling limiters included
- Overload protection Signal peak and protect LED indicators per channel
- 1U 19 rack-mountable

2 x 120 watt RMS output power impedance Will drive at 2 4 or 8 ohms no, inputs RCA Cinch unbalanced XLR / Jack balanced output zones rack mountable included power supply 230VAC

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10

6.8kg

44mm x 483mm x 325mm

## **amplification & mixing**: low impedance power amps

#### **APART PA4060**



Silent and ultra-slim power amplifier, Ideal for multi-zone or multi-room applications.

- Silent and reliable stereo power amplifier
- Ideal for multi-room applications
- 4 x 60 watt RMS @ 4 ohms Inputs with link switches to route input signalsConvection cooling limiters included
- Overload protection
- Signal peak and protect LED indicators per channel
- 1U 19 rack-mountable

output power 4 x 60 watt RMS impedance 4 ohms no. inputs 4 x RCA Cinch unbalanced output zones 4 x left and right speaker rack mountable included 230VAC power supply

dimensions (h x w x d) 44mm x 483mm x 325mm

'U' heiaht weight 6.9kg

#### **APART PUBDRIVE2000**



High power system solution amplifier. Ideal for use with SUB/Satellite speaker

systems. (see Mask series loudspeakers)

• Designed to run a series of loudspeakers with a separate sub output Very high power outputs to drive from 2 ohm impedances

3 channel outputs

• 1200 watt RMS into 2 ohm sub channel 2 x 500watt RMS into 2.7ohm L & R channels

Separate adjustable crossovers

Pre-out/amp in for external processors

Built-in extended AP limiter

Complete protection and limiter circuits for 24-hour operation
 Signal peak and protect LED indicators per channel

2 x 500watt RMS into 2.7ohm L&R channel / 1200 watt RMS into 2 ohm Sub channel output power

impedance no. inputs output zones

left right and sub rack mountable included power supply 230VAC dimensions (h x w x d) 134mm x 483mm x 482mm

'U' height 25kg weight

#### **ELECTRO-VOICE CP1200**



Precision series 2 x 600watt Class H power amplifier.

· Precision series sound quality Ideal for small full range cabinets and individual hi-frequency components

· 30% dynamic headroom

· Drives into 2 ohm

• 2 x 600 watts into 2 ohm 2 x 400 watts into 4 ohm

 Class-H design for less heat dissipation Very light and compact format

· High precision detent front controls

Dynamic audio limiter

• Robust construction and reliable design

Unique Protection package inc. Back-EMF protection

• 2U high rack 19 rack mountable

2 x 600 watts into 2 ohm 2 x 400 watts into 4 ohm output power impedance drives into 2 ohm 1 XLR per channel no. inputs output zones left right and bridge rack mountable

88.1mm x 483mm x 386 8mm dimensions (h x w x d)

'U' height 2U weight 13.5kg

#### **ELECTRO-VOICE CP1800**



Precision series 2 x 900watt Class H power amplifier

Precision series sound quality

Ideal for small full range cabinets and individual hi-frequency components

30% dynamic headroom

Drives into 2 ohm

2 x 900 watts into 2 ohm 2 x 600 watts into 4 ohm

• Class-H design for less heat dissipation

Dynamic audio limiter

Robust construction and reliable design

Very light and compact format
High precision detent front controls

 Unique Protection package inc. Back-EMF protection • 2U high rack 19 rack mountable

impedance no. inputs output zones

output powe

2 x 900 watts into 2 ohm 2 x 600 watts into 4 ohm Drives into 2 ohm 1 XLR per channel Left right and bridge

rack mountable power supply

dimensions (h x w x d) 'U' height

88.1mm x 483mm x 386 8mm

weiaht

#### **ELECTRO-VOICE CP2200**



Precision series 2 x 1100watt Class H power amplifier

Precision series sound quality Ideal for full range components as well separate components within concert sound systems

· 30% dynamic headroom

• Drives into 2 ohm 2 x 1100 watts into 2 ohm 2 x 800 watts into 4 ohm • Class-H design for less heat dissipation

Very light and compact formatHigh precision detent front controls

Dynamic audio limiter

 Robust construction and reliable design Unique Protection package inc. Back-EMF protection

2U high rack 19 rack mountable

output power impedance

2 x 1100 watts into 2 ohm 2 x 800 watts into 4 ohm Drives into 2 ohm

no. inputs 1 XLR per channel Left right and bridge output zones rack mountable included 230VAC power supply

dimensions (h x w x d) 88.1mm x 483mm x 386 8mm 'U' height weight 16kg

**JEDIA JTP10** 



FM/AM digital tuner module.

- - Comes with aerial and all relevant connections
  - 18 station preset memory
  - 12 for FM and 6 for AM band
  - Auto tuning

  - · Can be used on all Mobile JPA JPA (A) and JPS series
  - Can also be used with JME2 and 4A module nests

#### **JEDIA JCDR10**

1U

3U

included

230VAC

included

230VAC

2U

15ka

211

drive from 2 ohm impedances

combo XLR / Jack Balanced



CD player and FM/AM digital tuner module.

- Simple to fit
- CD player with cue/random/repeat and intro scan play
- Comes with aerial and all relevant connection
   30 station preset memory
- 18 for FM and 12 for AM band Auto tuning
- Auto reverse cassette mechanism
- Gain control
- Can be used on all JPA JPA (A) and JPS series amps
- · Can also be used with JME2 and 4A module nests

#### JEDIA JME2A



JME2A - 2 slot module nest for Jedia audio source

- Balanced XLR outputs individual or mixed for the 2 x
- 19 rack mountable
- · Power switch
- AC and 24VDC

#### JEDIA RMK10



Rack mount kit

- Allows for 19 racking of JPA1120 (see related product)
- **CLOUD DM1** remote wall plate controllers



DM-1 2 mic input remote panel

- - 2 balanced XLR mic inputs Individual level control for each mic
  - Common tamperproof HF & LF controls
- **CLOUD RL1 remote wall plate controllers**



Single gang electrical faceplate style wall mount volume

Can be daisy chained for multiple input requirements

- control for a variety of Cloud mixer products. Remote volume control of music source
- · Simple to wire solution
- Uses single gang electrical backbox

### INTER-M PB-9207A - battery charger



19 rack mounting battery charger.

Overcurrent and overcharge protection

- Controlled automatic charge current DC Amp meter
- 482 x 280 x 88mm (WxDxH)

### **JEDIA JCR10**



Auto reverse cassette deck and FM/AM digital tuner module.

- Simple to fit
  - Comes with aerial and all relevant connection
  - 18 station preset memo

**amplification & mixing**: ancillary

- 12 for FM and 6 for AM band
- Auto tuning
- Auto reverse cassette mechanism
- Gain control
- Can be used on all Mobile JPA JPA (A) and JPS series
- Can also be used with JME2 and 4A module nests

#### JEDIA JDM10A



Digital message/ signal module.

- 4bit ADPCM LSI/ 16kHz sampling frequency for high
- Backup battery for data storage after power failure (60)
- Almost 9 minutes of record time available across 6 messages
- Remote closing contact activation of messages Activation via remote call station (JRC10 see relevant
- Priority emergency message activation with loop repeat Gain control • Can be used on all Mobile JPA JPA (A) and JPS series
- Can also be used with JME2 and 4A module nests

## **JEDIA JME4A**



JME4A - 4 slot module nest for Jedia audio source modules

- Balanced XLR outputs individual or mixed for the 2 x modules
- 19 rack mountable
- Power switch • AC and 24VDC

products)

## **CLOUD LM1** - remote wall plate controllers



LM-1 Remote source selector and mic/line input module

- Inputs for balanced mic and stereo line
- XLR mic input RCA line input both with level control · Mic input can override music Remote control of mixers source selection and level control

### **CLOUD AE1 -** remote wall plate controllers



AE-1 Separate microphone and Line level input module

- Inputs for microphone and stereo music sources • 6.3mm jack input for mic. 6.3mm jack and RCA inputs
- for music Individual control of mic and music level

each with level control

· Mic signals can duck music source Facility to mute system music source



Single gang electrical faceplate style wall mount audio source selector and volume control for a variety of Cloud mixer products.

• 6 position audio source selector · Remote volume control of music source Simple to wire solution • Uses single gang electrical backbox

## **amplification & mixing**: ancillary

#### **APART PXQ2215**



The APart PXQ2215 is much more than a standard 2 x 15 band EQ. It combines the EQ section with a 2 way adjustable X-over at the back. Turning the frequency potmeter completely to the left results in a Full range output

Via this adjustable frequency potentiometer a perfect balance for your low and mid-high frequencies can be obtained no matter what acoustic environment you are

- Type: 2 x 15 2/3 octave 6 freq. Below 300 Hz ISO Spacing above 300 Hz
- X-over: 20-300 Hz adjustable 24 dB/oct. Linkwitz-Riley
- Control Range EQ: +/- 6 dB or 12 dB selectable
   Inputs: Balanced XLR 20 kOhm RCA Cinch 15 kOhm
- Outputs: Sub Out / High Full range out: XLR balanced
- Distortion: 0.02% (at 1 kHz all slider at center)
   Frequency Response: 20 Hz to 50 kHz -3dB (all slider at
- Signal to Noise Ratio : >93 dB
- Dimensions (H x W x D) : 44 x 483 x 280 mm
- Weight: 3.5 Kg

#### **BOSCH LBB1968/00**



By adding masked (inaudible) noise to the output signal hertz the Plena feedback suppressor is able to detect feedback occurs.

- Automatically adapts to the acoustical situation
- Up to 12 dB additional gain before feedback occurs

#### **BEHRINGER FBQ2496**



automatically and intelligently locates up to 20 feedback frequencies per channel and sets extremely narrow notch filters to destroy them leaving the remainder of the signal virtually untouched.

- Automatically and intelligently locates and destroys up to 20 frequencies per channel
   Ultra-fast feedback detection (>0.2 sec) due to proprietary FFT signal analysis

#### JEDIA JAD125A - audio distribution unit



- High quality electronic balanced inputs and outputs
- All XLR connectors
- Low noise PSU

- · Weight 2.9KG



and playback to sound reinforcement or public address the PM 500 System is a great sounding simple to transport and setup road tough sound system.

The PM500 System comprises 1 x PM 500 powered mixer two PT10 two way 10 loudspeakers and one DM1 0 dynamic microphone (plus one mic cable and two speaker cables).

loudspeakers featuring Wharfedale Pro proprietary drive units and a purpose built high quality Electro-Dynamic high frequency driver. With built in high frequency driver overload protection the PT series are perfect for life on the road.

- Five mono input channels featuring separate Mic & line input
   Channel five features extra Tape In button
- Tape In
- Record Out

- Parallel speaker outputs on rear of unit
- Built in 120 watt power amplifier
- Thermal protection
- Digital Delay · Power On/Off on front of unit for easy use
- Two band channel EQ
- XLR plus 1/4 input socket



The Plena feedback suppressor uses a powerful DSP with a patented algorithm to suppress acoustic feedback. It actively filters out unwanted room reverberations using an echo-cancellation and de-reverberation algorithm or by shifting the frequency of the output signal by five the reverb component of the signal and remove it before

- Patented feedback suppression algorithm
- Suppresses feedback before it occurs

- The FBQ2496 is the fastest (>0.2 sec.) and the only 96 kHz Feedback Suppressor on the market. Using an ultra-fast feedback detection algorithm it

- Ultra-narrow notch-filters (up to 1/60th octave) for very effective feedback suppression while keeping highest sonic quality
   Set-and-forget default setting plus Panic button enable immediate and super-easy Feedback Destroyer performance
- Auto mode continuously monitors the mix resetting programmed filters automatically
   Single-shot mode automatically detects and destroys feedback and locks the filter until you reset it manually
- Manual mode allows individual setting of up to 40 fully parametric filters with frequency bandwidth and gain adjustment
- Ultra-high resolution 24-bit/96 kHz A/D and D/A converter powered by a 32-bit DSP for ultimate audio performance
   Balanced inputs and servo-balanced outputs with gold-plated XLR and 1/4' TRS connectors
- Internal switch-mode power supply for maximum flexibility (100 240 V~) noise-free audio superior transient response plus lowest possible power consumption for energy savings

Ideal solution for distributing audio signals to multiple points. Up to 10 outputs can be be fed from a single input or 2 banks of 5 outputs from 2 inputs.

- 10 mono 5 stereo outputs
- · Individual output level control
- 230VAC and 24V DC operation
- 1U high
- 483 x 200 x 44mm (WxDxH)

## **amplification & mixing**: powered mixer / system

#### WHARFEDALE PM500 SYSTEM



Designed for optimum performance in a variety of applications from live music performance power Handlina impedance

The PM500 comes with a pair of PT10 loudspeakers. The PT series are high output high efficiency

The PM Mixer is protected by a tough carpet covered surround and benefits from:

- · Main line output on rear of unit

## amplification & mixing: powered mixer / system

colour

#### WHARFEDALE PM600 SYSTEM



Designed for optimum performance in a variety of applications from live music performance and playback to sound reinforcement or public address the PM 600 System is a great sounding simple to transport and setup road tough sound system.

An integral part of the PM Systems are the PT loudspeakers. The PM600 comes with a pair of PT12 loudspeakers. The PT series are high output high efficiency loudspeakers featuring Wharfedale Pro proprietary drive units and a purpose built high quality Electro-Dynamic high frequency driver. With built in high frequency driver overload protection the PT series are perfect for life on

The PM600 System comprises 1 x PM600 powered mixer two PT12 two way 12 loudspeakers and one DM1 0 dynamic microphone (plus one mic cable and two speaker cable

The PM Mixer is protected by a tough carpet covered surround and benefits from:

- Six mono input channels featuring separate Mic & line input
- Channel six features extra Tape In button
- Digital Delay
- Tape In
- Record Out
- EFX Return / EFX Send
- Power On/Off on front of unit for easy use
- Parallel speaker outputs on rear of unit
- · Main line output on rear of unit
- Built in 230 watt amplifier
- Two band channel EQ • XLR plus 1/4 input socket
- Three band master EQ
   Thermal protection

driver	12	
power Handling	230Watts	
impedance	40hms	
frequency Response	20Hz – 25kHz	
tappings	-	
sound level pressure (1w / 1m) -		
IP rating	-	
dimensions (h x w x d)	188mm x 475mm x 241mm	
weight	11400g	

black

#### **ALTO OEX400**



Self-contained portable powered mixer and speaker system

- 300W RMS into 40hms (254mm.) custom coaxial speakers
- 8 input channel mixer with wide choice of balanced/unbalanced input options • Frequency Response: 65Hz-20kHz @ 10dB
- 16 preset Internal Digital Effects section including effects combination
   Lightweight interlocking components adopting luggage style transportation system on wheels
- Three helpful handles (one for each speaker and one for the main unit) allow easier carriage
- Ideal compact portable audio system to ENJOY YOUR MUSIC! Overload / Short Circuit / Soft Clip Limiter / Thermal Protection Fan Cooling

## amplification & mixing: gymnasium headphone system



## **CLOUD PUMPSTATION** - Modular multi-channel headphone distribution system

Listening to a personal choice of music or video sound track can reduce the tedium of exercising or waiting. The Cloud Headphone Distribution System has been specially developed to meet the needs of users who would benefit from having an entertainment facility at their fingertips. Whether exercising adding a tan or patiently waiting for something to happen the Pump Station is designed to provide the entertainment. Offering 8 stereo sound sources any of which can be selected to operate through a pair of stereo headphones via the RH-8 or WP-8(A) control panel with a total capacity of 256 control panels on one system.

## **CLOUD PUMPSTATION 16**



10

120Watts

20Hz - 25kHz

155mm x 475mm x 269mm

40hms

9320g

- 8 stereo channel inputs
- Global input with priority for microphone
- RJ45 connection for up to 16 RH-8 or WP-8(A) control panels
  Connection to Substation16 for additions of up to 16 RH-8 or WP-8(A) control panels per substation (max 256 control panels)

## **CLOUD SUBSTATION 16**



- Expansion unit for connection of 16 x RH-8 RH-8c or WP-8(A) control panels
- Up to fifteen SS-16s can be added to provide a total system capacity of 256 users

### **CLOUD RH-8**



- Remote control for Pumpstation
- · Fits to gym equipment 8 channel selector
- Volume control
- 3 5mm headphone socket • RH-8 Ivory coloured RH-8C Charcoal coloured

## **CLOUD WP-8**



- Remote control for Pumpstation · Wall-mount electrical faceplate
- 8 channel selector
- Volume control
- 3.5mm headphone socket · Cloud Grey/blue finish

frequency Response

dimensions (h x w x d)

sound level pressure (1w / 1m)

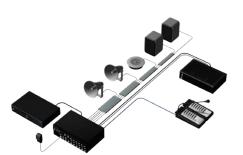
tappings

IP rating

weight

colou

## amplification & mixing: voice alarm control equipment



#### **BOSCH PLENA VOICE ALARM - basic system**

In a stand-alone voice alarm system with up to 6 zones the Plena voice alarm controller with its built-in 240watt booster amplifier is and ideal plug and play solution. The front panel with integral supervised microphone functions as a fireman's panel and an additional call station with a programmable keypad can be added to allow public address calls to be

If required BGM can be implemented in selected zones. Up to 255 messages and chime tones are recorded as WAV files the controller's supervised message manager

#### BOSCH LBB1990/00 - Plena Voice Alarm System Controller



Self-contained portable powered mixer and speaker system

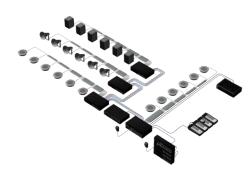
- Basic 6 zone system
- Expandable to 60 zones (using routers see additional zone section) Up to 8 call stations can be connected
- Built-in 240 watt booster amp
- Digital message system
- Up to 255 pre-recorded messages and chimes/tones can be stored
- Emergency mic on front panel
- 16 priority levels
- Individual BGM control for each zone
- Standard and emergency control in and outputs
   Additional Booster amps are supervised
- Can be set up using PC or via DIP switches
- Fully complies with IEC60849 and all national equivalents such as B\$5839

#### BOSCH LBB1956/00 - Plena Voice Alarm Call Station



Self-contained portable powered mixer and speaker system.

- 6 programmable keys and all call
- Emergency call power and fault indicators
- Uni-directional condenser mic on flexible ster
- Allows connection of expansion keypad LBB1957



#### SYSTEM CONFIGURATION FOR ROUTING TO ADDITIONAL ZONES

A medium to large sized two-channel voice alarm system with 24 zones is easily realised with a Plena Voice Alarm Controller and three routers (each providing routing for 6 zones). A BGM source can provided music if required and additional Plena Booster amplifiers are incorporated to provide power for the extra zones emergency call channel and as a spare amplifier. The Plena remote control control panels allow the main equipment to be situated in a fire-retardant room or cabinet and can also act as fireman's panels close to an emergency exit or the main entrance. The system can be easily extended using additional routers.

### BOSCH LBB1996/00 - Plena Voice Alarm remote controller



- Duplicates functionality of System controller front panel (allowing system to be remotely situated in rack)
- Can be used as a fireman's panel.

#### BOSCH LBB1992/00 - Plena Voice Alarm Router



Each router adds 6 zones

• Up to 9 routers can be used

Same functionality as system controlled

Uses System controllers built-in amp or additional Plena

#### BOSCH LBB1957/00 - Plena Voice Alarm Keypad Extension



- 6 programmable keys and all call
- Emergency call power and fault indicators
   Uni-directional condenser mic on flexible stem
- Allows further connection of expansion keypad LBB1957

# **BOSCH PRAESIDEO -** Digital Emergency Sound System

### The most advanced off the shelf emergency sound system available today.

Praesideo is a fully digital public address system that meets all the requirements of an emergency system. The system brings highly innovative and advanced digital technology to the public address market.

The processing and communication of both audio signals and control data entirely in the digital domain makes the system superior to others currently available. Praesideo is designed for configuration from a PC which makes installation and setting of operating perameters very simple and user-friendly.

Praesideo systems have been installed in hotels office complex airports around the world as well as cruise liners and

Due to the nature of the Praesideo product it is necessary to configure as system on a project by project basis. We are happy to specify a complete system with the assistance of a Bosch technician.

Please call for a quotation!

## **conference** - discussion systems

#### **BOSCH CCS ULTRO SYSTEM**

The CCS 800 Ultro Discussion System from Bosch brings order and convenience to small and medium-sized gatherings and conferences. This versatile and economical system is both simple to install and extremely straightforward to use. It has all the facilities required for achieving full control of meetings and discussions without the need for an operator

Excellent speech intelligibility under all conditions is assured due to a unique built-in digital acoustic feedback suppression facility. This allows the volume to be increased as required without any danger of feedback.

System example - Council Meeting

Each active participant has a table top unit for listening and speaking. An external microphone can be connected to the central control unit to allow the audience attending the meeting to have their say.

Typical council set up

- 1 x Central control unit
- 1 x Chairmans unit
- Up to 50 Delegate units
- Inter-connect cables to suit installation (see list)
- Microphone for Audience participation (see microphone section)
- External amplifier and speakers for audience (see relevant product section)

#### **BOSCH CCSCU CENTRAL CONTROL UNIT**



The heart of the CCS Ultro System the control unit supplies power for all delegate and chairman's units in the system. The unit also controls the microphones of the chairman's and delegate units as well as providing connections for audio inputs and outputs

- · Mp3 record facility via SD card input
- Supplies power for up to 50 contribution units
- Provides control for up to 150 contribution units Will slave up to 2 further control units to allow up to 150 contribution units for one system
- Four selectable modes and a test mode
- Open mode without auto-switch off-allows selection of 1 to 4 mics which can be simultaneously active
- Open mode with auto-switch off allows selection of 1 to 4 mics which can be simultaneously active. If delegate does not speak for 30 secs mics are auto switched off
- Override mode delegates can override each other by activating microphone. \*NB Cannot override Chairman
- Chairman only mode Only chairman can speak
- Test mode Checks system connections automatically
   Built-in loudspeaker and headphone socket
- System requires LBB3331/00 Chairmans unit LBB3330/00 Delegate unit
   Optional 19 rack-mount kit LBB331/00

#### BOSCH LBB3331/00 - chairmans unit



Chairmans unit with flexible gooseneck mic and 'active' light ring

- Overrides delegate units when required.
- Gooseneck 313mm long
- Built-in loudspeaker Two headphone sockets
- Built-in volume controls for headphones
- Also available with 488mm long microphone LBB3331/50

## light ring.

BOSCH LBB3330/00 - delegate unit



Delegate unit with flexible gooseneck mic and 'active'

- Gooseneck 313mm long • Built-in loudspeaker
- Two headphone sockets
- Built-in volume controls for headphones
- Also available with 488mm long microphone

#### **BOSCH LBB3316/05** 5metre cable extension lead



#### BOSCH LBB3316/10 10metre cable extension lead



#### **BOSCH LBB3316/00** 100metre cable extension lead



#### **APART PA-CONF** - conference / discussion system



The Chairman and Delegate mics have two console styles available. Either table-mount or flush-mount.

The system works by simply allowing a delegate to enter a discussion mix with all live microphones. Audio is fed from the central control unit to a separate public address system via a line output with level control. A built-in DSP automatic feedback circuit controls any 'howl-round' issues. There is also inputs for an external audience mic and for separate audio sources such as video presentation or remote telephone conferencing.

#### APART PA-CONF - control unit



- Microphone pre-amplifier/mixer control unit
- Infra-red remote control
  Input for conference mic daisy chain (up to 60 units)
- Mic/line and Line input Built-in DSP Automatic feedback controller
- 483mm (W) x 280mm (D) x 44mm (H)



- **PA-CONFC** chairmans unit (table-top) Solid table-top design
  - · LED collar 'active' light on mic
  - 470mm uni-directional cardioid gooseneck mic.

  - 12 metre cable c/w jack plug includedSpeech control with chairman's' priority override button
  - 120mm (W) x 154mm (D) x 40 (H)

call us now on: +44 (0) 1663 767 888

## **conference** - discussion systems

#### **APART PA-CONFCI -** chairmans unit (flush-mount)



- LED collar 'active' light on mic Separate 470mm uni-directional cardioid gooseneck
- Ruilt-in limiter
- 12 metre cable c/w jack plug included
- Speech control with chairman's' priority override button
- 142mm (W) x 124mm (Depth from surface) x 62 (length)

#### APART PA-CONFD - delegate unit (table-top)



- Solid table-top design
- LFD collar 'active' light on mic
- 470mm uni-directional cardioid gooseneck mic.
- · Built-in limiter
- 12 metre cable c/w jack plug included
- Speech control button
  120mm (W) x 154mm (D) x 40 (H)

### APART PA-CONFDI - delegate unit (flush-mount)



- Tidy flush-mount base design
- LED collar 'active' light on mi Separate 470mm uni-directional cardioid gooseneck
- · Built-in limiter
- 12 metre cable c/w jack plug included
- Speech control button
- 142mm (W) x 124mm (Depth from surface) x 62 (length)

notels meeting rooms rental services and many others.

## APART PA-CONF-SET - easy carry conference mic kit



The APart PA-CONF-SET is a case that contains a chariman conference microphone terminal (Ref PA-CONFC) and 7 delegate conference microphone terminals (Ref PA-CONFD) together with all cables to wire them to the APart PA-CONF microphone system All cables bases and microphones are packed in a solid flight case. This makes the PA-CONF-SET very suitable for presentations mobile or occasional use in

Included:

- 1 x PA-CONFO
- 7 x PA-CONFD
- 1 x Cable 12m
- 7 x Cable 2 m

Please note that the PA-CONF-SET can only be used with the APart PA-CONF microphone system

## **conference** - digital congress systems

#### **BOSCH DCN** - digital congress network (next generation)



The world's first fully digital congress system brings the benefits of innovative digital technology to discussion conference and congress systems. It is the first entirely digital system of its kind and offers versatility high audio quality and data transmission while providing complete control over conference proceedings. DCN next generation has low susceptibility to interference from mobile phones. Operation and installation is highly simplified. With modern user-friendly control software and flexible management facilities for all types of conferences it is suitable for events from small informal gatherings up to international multi-lingual conferences

The system meets every requirement of modern conference management. Facilities include basic microphone management delegate identification and registration electronic voting information distribution and display and extensive simultaneous interpretation. With the appropriate software modules a single operator can control and monitor even the largest of conferences.

#### **BOSCH WIRELESS DCN - wireless discussion system**

Fully encrypted secure digital wireless congress system

Designed to be the most flexible discussion system available the Bosch DCN Wireless Discussion System offers the perfect solution for challenging locations such as multi-user venues and historical buildings. For multi-use venues the wireless system allows owners to service customers better easily and more effectively. With minimal time required for set-up or break-down multiple events can take place in sequence meaning better and more effective use of space.

For historical locations the benefits can be even more pronounced. A discussion can be installed rearranged and operated with virtually no impact on the integrity of the historical location. One no longer has to worry about damaging antique materials or ruining the aesthetics of a grand hall. No cables have to be laid or holes drilled. The entire system has peen designed to be beautiful and unobtrusive so that all participants can focus on the event at hand.

sales@commercialaudiosolutions.com

- · Set up quickly with no impact on location
- Easy to organise anywhere
- Award-winning design
- Stable and secure digital communication
- Immune to mobile interference
- Interpretation facilities (optional) Optional voting system

#### For both the Congress and Wireless systems please call for a comprehensive quotation and information pack

## portable audio - megaphones

#### **COMMERCIAL AUDIO CASO03**



10 watt compact megaphone

- A compact and lightweight megaphone with 10 watt
- Up to 700m projection
- Comfortable pistol grip
- Carry strap
- · Rotary volume control

10watt 6 x AA batterv weight dimensions 235 x 150mm Ø

#### **COMMERCIAL AUDIO MEG25**



• Detachable Anti-Feedback fist microphone

Powerful 25 watt megaphone with detachable fist mic

- Switchable siren function
- Up to 1km range
- Robust ABS construction
- · Pistol grip or shoulder strap operation

max Power 8 x D battery weight

340 x 230mm Ø dimensions

## portable audio - presentation

The following systems are ideal for portable presentations such as exhibition stands, village halls, outdoor events etc.

#### **SOUNDPLUS TRAMPSTD**

**SOUNDPLUS TRAMPDVD** 



Compact 25 watt presentation amplifier

- 16 channel UHF radio mic system
- 25 watt amplifier built-in
- High performance speaker system
- Separate Auxillary input for additional sound source Built-in rechargeable battery with unique monitoring to stop over discharge
- Light weight easy to carry system with soft touch carry
- Wired handheld mic included

#### Comes with radio mic included (Options below)

- · wireless Handheld mic (Orde TRampStandardHandheld)
- Wireless Lapel mic and beltpack (Order

for music and speech applications

• 16 channel UHF radio mic system

• Wired handheld mic included

stop over discharge

TRampDVDHeadset

· Remote control

High power 50 watt amplifier built-in

 Two way high performance speaker system Separate Auxillary input for additional sound source

- TRampStandard Lapel
- Wireless Headset mic and beltpack (Order TRampStandard Headset

Powerful 50 watt presentation system with built-in DVD player for Video presentation and excellent sound quality

DVD player suitable for DVD/SVCD/VCD/CD-RW/ MP3CD with remote control

· Built-in rechargeable battery with unique montoring to

Light weight easy to carry system with soft touch carry

· Output for second speaker (see related products)

• Wireless Handheld mic (Order TRampDVDHandheld)

Wireless Lapel mic and beltpack (Order TRampDVD)

Comes with radio mic included (Options below)

Wireless Headset mic and beltpack (Order

### **SOUNDPLUS TRAMPCD**



Powerful 50 watt presentation system with excellent

- 16 channel UHF radio mic system
- Fully programmable Anti-shock CD system with remote
- Plays MP3 discs
- High power 50 watt amplifier built-in
- Two way high performance speaker system
- Separate Auxillary input for additional sound source Built-in rechargeable battery with unique montoring to stop over discharge
- Light weight easy to carry system with soft touch carry handle
- Wired handheld mic included
- Output for second speaker (see related products) Remote control
- Comes with radio mic included (Options below)
- Wireless Handheld mic (Order TRampCDHandheld) Wireless Lapel mic and beltpack (Order TRampCD
- Wireless Headset mic and beltpack (Order TRampCD Headset)

#### **SOUNDPLUS CHAMPCD**



Superb high power 100 watt presentation system with excellent sound quality for music and speech applications where there are large audiences.

- 16 channel Diversity UHF radio mic system
- Fully programmable Anti-shock CD system with remote
- Plays MP3 discsHigh power 100 watt amplifier built-in
- Two way high performance speaker system
- Separate Auxillary input for additional sound source Built-in rechargeable battery with unique montoring to stop over discharge
- Easy to carry system with soft touch carry handle
   Wired handheld mic included
- Output for second speaker (see related products) Remote control

#### Comes with radio mic included (Options below)

- Wireless Handheld mic (Order CHampCDHandheld) Wireless Lapel mic and beltpack (Order CHampCD) Lapel)
- Wireless Headset mic and beltpack (Order CHampCD

#### SOUNDPLUS CHAMPDVD



Superb high power 100watt presentation system with built-in DVD player for Video presentation excellent sound quality for music and speech applications where there are large audiences.

- 16 channel Diversity UHF radio mic system
- DVD player suitable for DVD/SVCD/VCD/CD-RW/MP3CD with remote control High power 100 watt amplifier built-in
- Two way high performance speaker system
- Separate Auxillary input for additional sound source
   Built-in rechargeable battery with unique montoring to stop over discharge
- Easy to carry system with soft touch carry handle Wired handheld mic included
- Output for second speaker (see related products)
- Remote control
- Comes with radio mic included (Options below)
- Wireless Headset mic and beltpack (Order CHampDVD Headset)

#### Wireless Handheld mic (Order CHampDVDHandheld) Wireless Lapel mic and beltpack (Order CHampDVD Lapel)

## portable audio - aerobic & dance

#### **SOUNDPLUS TRAMP PC30**



Worlds first true 20% digital pitch control on DVD / CD USB and SD card input. Ideal for aerobic and dance classes

- 16 channel UHF radio mic system
- Fully programmable DVD / CD and MP3 player memory stick with remote control
- Plays MP3 discs
- High power 50 watt amplifier built-in
- Two way high performance speaker system
   Separate Auxillary input for additional sound source
- Built-in rechargeable battery with unique monitoring to stop over discharge · Light weight easy to carry system with soft touch carry
- Wired handheld mic included
- Output for second speaker (see related products)
- Remote control

#### Comes with radio mic included (Options below)

- · Wireless Lapel mic and beltpack (Order
- Wireless Headset mic and beltpack (Order TRampPC30

#### **SOUNDPLUS CHAMP PC30**



Worlds first true 20% digital pitch control on DVD / CD USB and SD card input. Ideal for aerobic and dance classes. Superb high power 100 watt system for larger classes.

- 16 channel Diversity UHF radio mic system
- Fully programmable Anti-shock CD system and MP3 memory stick with remote control
- Plays MP3 discs
- High power 100 watt amplifier built-in
- Two way high performance speaker system
- Separate Auxillary input for additional sound source · Built-in rechargeable battery with unique monitoring to
- stop over discharge

  Easy to carry system with soft touch carry handle
- Wired handheld mic included
- Output for second speaker (see related products)

#### Comes with radio mic included (Options below)

- Wireless Lapel mic and beltpack (Order CHampPC30 lapel)
- Wireless Headset mic and beltpack (Order CHampPC30

## portable audio - accessories (for all soundplus portable systems)

#### TRAMP EXT



Extension speaker for tramp systems.

- Connects to EXT output from Tramp system
- Same powerful 2 way speaker system as main unit
- Offers improved sound coverage
- · Can be tripod mounted

#### **CHAMP EXT**



Extension speaker for **ch**amp systems.

- Connects to EXT output from CHamp system
- Same powerful 2 way speaker system as main unit
- Offers improved sound coverage
- Can be tripod mounted

#### H/HELD



separate 16channel handheld  $\dot{\text{mic}}$  for tramp and champ

#### **TRAMPCOVER**

Padded cover for tramp systems (except tramp-

- Offers protection to all controls.
- Protects against damage to speakers · Allows for operation whislt cover is on

## **BPACK/L**



Separate 16channel Beltpack and lapel for Tramp and Champ systems

#### **CHAMPCOVER**

Padded cover for champ systems

- Offers protection to all controls Protects against damage to speakers
- Allows for operation whislt cover is on

#### **HBM**



Headset boom mic to work with Soundplus Beltpack

- Super Cardioid pattern Rugged construction
- Ideal for aerobic/dance

#### **DUAL CHANNEL**

system upgrade to 2 radio mic channels

- Available on Tramp and Champ systems
- Gives 2 separate radio mic receivers in one unit
- Extra radio mic transmitters available separately Order upgrade with Tramp or Champ system

## **portable audio -** lecterns

## **SOUNDPLUS COMBI 88 DVD**



Beautifully constructed wood vaneer lectern, Ideal for conferences.

- All-in one construction of lectern amplifier wired gooseneck wireless handheld mic and removable speaker system
- · High power 88 watt amplifier
- Elegant wood vaneer construction Detachable speaker for flexible sound directionality
- Built-in castors for easy moveability
- UHF radio mic system
- Built-in light to aid reading
- Finger-tip audio controls on top of lectern
- DVD player and with VGA output to monitor/ visual
- · Lockable draw for storage of information/radio mics

## PASO SL1120B



Compact high quality lectern

- 35 watt amplifier · Built-in rechargeable battery
- Flexible gooseneck with high quality microphone Tone and volume control
- Input for music source (CD MP3 etc) or radio mic
- Microphone activation will dip any music signal

# assistive hearing - induction loop

To comply with the Disability Discrimination Act, all service providers in contact with the general public must provide assistive hearing equipment, at the point of contact.

In this section you will find a wide range of audio frequency induction loop equipment suitable for permanent installation in public buildings and vehicles, as well as portable units for temporary applications. This enables hard of hearing people to hear and communicate more clearly, simply by switching their hearing aids to the 'T' position.

#### SIGNET ML1K



Simple to install small counter loop kit.

- Requires no specialist audio install experience
- Complies with DDA requirements BS8300 Perfect for counter/desk applications
- Can also be used as small room loop up to 20sam
- Fits into double gang electrical back box Complete kit provided. Nothing else required
- Comprises Loop amp microphone loop cable and loop ID sticker
- Excellent audio performance



Domestic/Retirement Home TV Lounge loop kit.

- Easy to use controls
- Doorbell/ security input
- 2 inputs

- Loop ID sticker
- Made in UK

#### SIGNET PDA102L



Small room loop kit

- Up to 50sqm coverage
- Can be wall or table mounted
- · Simple installation system
- Accepts Signet Outreach plates (up to 8 input plates on 1 cable) See related products
- Comes with AMT microphone and 30m cable included. Complies with DDA legislation BS8300 and also EN60118-4
- Ideal for interview rooms classrooms shops etc Phantom power for use with other microphones
- Adjustable limit and drive control. Loop ID sticker
- Extremely compact design 56mm x 136mm x 175mm
- 5 year warranty • Excellent audio performance
- Made in UK

#### SIGNET PDA200E



Economical wall-mounted medium sized room loop

- Up to 120sam coverage
- Wall mountable can be hidden in store room etc Accepts Outreach plate system (up to 8 input plates
- See related products • 2 further inputs mic and Line Fully compliant with DDA BS8300
- 100v line input from PA system Tamper resistant controls
- Fire/security alarm input Fully automatic compressor limiter
- Loop ID sticker Ideal for schools colleges and rooms left unsupervised
- Excellent audio performance
- Made in UK
- 5 year warranty

## SIGNET PDA500/2



Professional range loop amplifier with 500sa metre

- Ideal for theatres cinemas churches conference halls
- where high quality audio is required

   500sqm coverage
- 2 x XLR inputs (1 x balanced mic and 1 x switchable balanced mic/line)
- 1 x input for outreach plates (allows up to 10 x outreach
- plates to be daisychained see related products)

   Adjustable level controls for all inputs
- Metal compensation control helps offset frequency response problems with excessive metal in a building
   LED True output current meter
- LED compressor indicator 3.5mm headphone socket for monitoring of output
- Advanced signal processing with automatic gain
- Optional rack-mount kit (PDA/RM see related product)

#### **SIGNET DL50K**

- Requires no specialist audio experience to install Ideal for bedroom living rooms TV lounges etc.
- Excellent audio performance
- Fully compliant for DDA
- Covers up to 100sqm
- 5 year warranty
- Headphone socket for simple set up test
- Kit comes complete with amp power supply 33m loop
- · Scart to phono cable microphone easy to follow

## SIGNET PDA102C

Counter loop kit.

 As PDA102L but with TXBI counter loop instead of room loop cable

As PDA102L but with scart lead and APL connection

### SIGNET PDA102S



SIGNET PDA102R

coverage.

plate as well as loop cable

As PDA102L but with APM boundary mic instead of

## SIGNET PDA200/2



Professional range loop amplifier with 200sq metre

- Ideal for theatres cinemas churches conference halls where high quality audio is required 200sam coverage
- 2 x XLR inputs (1 x balanced mic and 1 x switchable balanced mic/line) 1 x input for outreach plates (allows up to 10 x outreach plates to be daisychained – see related products)
- Adjustable level controls for all inputs Metal compensation control helps offset frequency response problems with excessive metal in a building
- LED True output current meter LED compressor indicator • 3.5mm headphone socket for monitoring of output
- Advanced signal processing with automatic gain Optional rack-mount kit (PDA/RM see related product)

### SIGNET PDA1000/2



Professional range loop amplifier with 900sq metre

- Ideal for theatres cinemas churches conference halls where high quality audio is required
  • 900sqm coverage
- 2 x XLR inputs (1 x balanced mic and 1 x switchable balanced mic/line) • 1 x input for outreach plates (allows up to 10 x outreach
- plates to be daisychained see related products)

   Adjustable level controls for all inputs Metal compensation control helps offset frequency response problems with excessive metal in a building
   LED True output current meter
- 3.5mm headphone socket for monitoring of output Advanced signal processing with automatic gain

LED compressor indicator

- Optional rack-mount kit (PDA/RM see related product)

## assistive hearing - induction loop

#### SIGNET PL1K



Portable easy operation loop kit.

- · Ready to use in seconds
- Fully compliant for Disability Act
- Ideal for counter table or desk top Meeting rooms banks offices etc
- Excellent audio performance
- Simple 1 button operation
- Full rechargeable system
- 5 year warranty
- Integral high performance mic · Battery efficient cut off when not in use
- Additional mic socket included
- · Made in UK

#### SIGNET VL1



Vehicle loop. Ideal for taxi's / minibuses buses & coaches

- Easy Install
  - VL1-B1 12v dc power variant for taxis minibuses
  - VL1-B2 24v dc power variant for coaches and buses
     Allows full compliance with DDA

  - B1 kit comprises amp mic loop cable 12v fused cigarette lighter adaptor B2 kit comprises amp mic loop cable 24v kit has a 12v
  - to 24v converte
  - Loop ID sticker
  - 5 year warranty Full install instruction included
  - Fits under dashboard or in glovebox

## **assistive hearing -** loop accessories

#### SIGNET PDA/RM



Rack mount for all MK11 (/2) loop amplifiers.

#### SIGNET PDA/WM

Wall mounting kit for all PDA MK11 (/2) loop amplifiers.

#### SIGNET OUTREACH PLATES

Designed to increase the audio input capability of Signet induction loop systems. Each plate features a built-in mixer, pre-amp, input level control and balancing output. Up to 10 plates can be daisy-chained on 1 balanced line level input.

Cable runs in excess of 100m can be used with standard twin pair cable.

#### **APM** - wall/ceiling mount boundary microphone



- Self-contained omni-directional electret microphone
- On-board mic to line converter
- Ideal for ceiling or wall-mounting · Coverage of up to 25m² (ceiling height
- Standard single gang electrical face plate

#### **APXM** - for microphones with xlr plug



- Accepts balanced or unbalanced microphones
- 3 pin XI R input
- On-board mic to line converter
- High gain pre-amplifier
- 8v phantom supply
- Standard single gang electrical face plate

#### **APQM** - for microphones with 1/4" jack plug



- ¼ / 6.3mm Jack input
- On-board mic to line converte
- · High gain pre-amplifie 8v phantom supply
- Single gang electrical face plate

## **APJ** - for microphones with 3.5mm jack plug



- Accepts balanced or unbalanced microphones
- · 3.5mm Jack input
- On-board mic to line converter
- · High gain pre-amplifier
- 8v phantom supply
- Single gang electrical face plate

#### APL - line level audio input plate



- Accepts 2 line level signals (stereo source TV CD etc) · 2 phono (RCA) input sockets
- Standard single gang electrical face plate

## APXL - 3 pin xlr Line level audio input plate



- Accepts XLR feed from audio equipment (stage church
- On-board level control
- Standard single gang electrical face plate

## **API** - loop active indicator plate



52

- 2 ultra-bright LEDs in transluscent diffuser
- Induction loop symbol
- Illuminates when outreach network is powered

#### **APV** - power supply for outreach plates



For use where loop system does not have 12/24v output



- Can be used as retro fit for none Signet loop system.

## assistive hearing - loop accessories

#### **RXTi2** - loop listening device



- Enables the installer / engineer to check that an induction loop system is working effectively without the use of a hearing aid!!!
- Lighweight headphones and 2 x AAA batteries required (not supplied)

#### **TEAR10** - loop present stickers



Pack of ten self adhesive 'induction loop present'

#### AHHM/H - combined magnetic field strength meter and loop listener



The FoSmeter can be used to accurately measure the magnetic field strength of an induction loop system. It is calibrated at manufacture for accuracy and linearity using a calibrated magnetic field and includes 10 LEDs laid out in 3dB increments. These LEDs indicate the magnetic field strength relative to 100mA/m (i.e. 0dB) and their response is fast attack and slow decay in line with peak programme meter type instruments

In addition the 3.5mm jack socket on the side of the FoSmeter H allows conventional audio signals such as music or speech to be tested for distortion using Walkman-style headphones (not supplied). The headphones used must have an impedance level of at least 32 Ohms. Please note the GAIN switch on the FoSmeter H is set to operate in low mode only to prevent interference from mains hum when listening to the loop signal.

#### **CAS850 -** 4 core cable for outreach plates



- · Ideal for connecting Signet outreach plate systems
- 2 x twisted pairs
- Colour coded cores
- White flexible sheath 100 metre drum

## Loop4/W - induction loop cable



100m drum of 2.5mm<sup>2</sup> 32 strand loop cable

# LOOP3/W - induction loop cable



• 100m drum of 1 5mm<sup>2</sup> 32 strand loop cable

#### Flat1005 - flat copper loop cable



- 100 metre reel 0.5mm² insulated copper foil tape
- · Ideal for use under carpets

#### Flat2005 - flat copper loop cable



- 100 metre reel 1 0mm² insulated copper foil tape
- Ideal for use under carpets

#### Flat3005 - flat copper loop cable



- 100 metre reel 1.5mm<sup>2</sup> insulated copper foil tape.
- Ideal for use under carpets.

## assistive hearing - infra-red

In this section you will find a range of infra-red equipment suitable for permanent installation in public buildings, enabling hard of hearing people to hear and communicate more clearly, simply by switching their hearing aid to the 'T' position. As the hard of hearing person needs to be in 'line of sight' of the transmitter, infra-red systems offer more privacy and security than induction loop systems, as there can be no 'overspill' into adjacent rooms / areas.

The systems below consist of modulators and radiators to bathe a room or area with an infra-red signal. Approximate coverage areas are given for each of the radiators. When specifying these products please make sure you have included power supplies, mounting brackets and any extension cables required. If you have any difficulty please contact us for a full quotation.

#### **SENNHEISER SI30**



Small/medium area modulator/radiator combined

The SI30 is a wideband modulator with an integral radiator. It can be switched between operation on channel 1 (2.3 MHz) channel 2 (2 8 MHz) and stereo operation. Due to its compact size and relatively low radiating power the \$1.30 modulator/radiator and the \$21.30 radiator (see related products) are an ideal choice for smaller or medium-sized rooms for covering recesses or for applications which require transmission of audio information to well defined zones e g. in museums

- Compact radiator and modulator/radiator for the carrier frequencies 2 3MHz and 2.8MHz
- Up to 80sq m coverage Line level input
- Easy installation and precise alignment
   Includes 1 x AF connection cable 3.5 mm stereo jack plug to Texas connector length 2m
- 1 x 3.5 mm/1 / 4 stereo jack adaptor
- Requires mount clip I7K20 and bracket Requires NT20-1-UK power supply
- Optional KK20-1 1 metre dc extension lead for use with NT20-1-UK and NT20-4-UK Optional KK20-7 7 metre dc extension lead for use with NT20-1-UK and NT20-4-UK
- Optional IZM20 cluster-mount bracket NT20-4-UK 4 way power supply KKY20-015 4 way
- DC extension cable and KR20-015 4 way infra-red connection cables
- Can be modified to work directly at microphone level with phantom power (please call for quotation)

## assistive hearing - infra-red

#### **SENNHEISER SZI30**



The SZ130 is a wideband slave radiator designed to work in conjunction with the Sl30 in applications where a single radiator is not sufficient to give full coverage pattern. Due to its compact size and relatively low radiating power the SZI 30 radiator is an ideal choice for smaller or medium-sized rooms for covering recesses or for applications which require transmission of audio information to well defined zones e.g. in museums.

- Compact slave radiator for the carrier frequencies 23 MHz and 2.8 MHz
- Up to 80sq m coverage
- Fasy installation and precise alignment
- Requires mount clip IZK20 and bracket
- Requires NT20-1-UK power supply
   Optional KK20-1 1 metre dc extension lead for use with NT20-1-UK and NT20-4-UK
- Optional KK20-7 7 metre dc extension lead for use with NT20-1-UK and NT20-4-UK
- Requires KR20-7 connection cable to interconnect with SI30
- Optional IZM20 cluster-mount bracket NT20-4-UK 4 way power supply KKY20-015 4 way DC extension cable and KR20-015 4 way infra-red connection cables

#### **SENNHEISER SZI1015-T**



Large area coverage modulator and radiator combined.

The SZI 1015-T is a 2-Watt infra-red radiator with integral modulator. The wideband modulator uses the extremely reliable carrier frequency of 2.3 MHz. The radiator/modulator is automatically switched on and off by the AF signal. Via an RF output the modulated signal can be fed to further radiators SZI1015. The SZI 1015-T has a coverage area of appx. 400 m2 (1313 33 sq ft) independent diode groups ensure extremely reliable transmission.

- 2-Watt infra-red radiator with integrated modulator for the carrier frequency 2 3 MHz
- Up to 400sq m coverage
- Line level input
- RF output (BNC socket and barrier strip) for connecting additional radiators using coaxial cable
- · Energy saving automatic on/off function
- Requires WBSI30 mounting bracket
- Requires NT1015 power supply
- Can be modified to work directly at microphone level with phantom power (please call for quotation)

#### **SENNHEISER SZI1015**



The SZI 1015 is a 2-Watt slave radiator with a coverage area of up to 400 m². The radiator is switched on and off automatically by the modulator's RF carrier. The RF signal from the modulator can be daisy-chained via BNC sockets. A barrier strip with RF and DC inputs and outputs is connected in parallel.

- 2-Watt radiator with a maximum coverage area of 400 m²
- RF output (BNC socket and barrier strip) for connecting additional radiators using coaxial cable
   Energy soving automatic on/off function
- Requires WBSI30 mounting bracket
- Requires NT1015 power supply. Note NT1015 power supply will power up to 1 x S11015T and 2 x SZ11015 from one supply.

#### **SENNHEISER NT20-1**



Power supply for SI30 and SZI30.

- Power supply unit
- Plug-in mains unit for an SI 30 modulator/radiator or SZI 30 radiator
- Output voltage: approx. 24 V DC Output current: approx. 200 mA
- **SENNHEISER NT20-4**



4 way power supply unit.

- Plug-in mains unit for up to four \$1.30 / \$ZI 30.
- For easy installation of SL30 / SZL30 clusters.
- Output voltage: approx. 24 V DC
- Output current: approx. 500 mA

#### **SENNHEISER L151-2-UK**



2 way charger and power supply for IR receivers.

- 2 way charger Sennheiser infra-red receivers
- For use with R1150 and R1150LL receivers
- Will also charge separate NiHM batteries BA151 (see
- related products)

#### **SENNHEISER NT92-UK**



Power supply for L151-10 10 way charger.

- Output voltage: approx. 13 V DC
- · Output current: approx. 200 mA

### **SENNHEISER NT1015**



- Power supply unit.
- Mains unit for SI 1015 / SZI1015 modulator. (Will power up to 1 x \$11015T + 2 x \$21 1015.)
- Input voltage: 100 240 V (1 3 A)
- Output current: 1 7 A

### SENNHEISER L151-10



- 10 way charger for IR receivers.
- For use with RI150 and RI150LL receivers • Will also charge separate NiHM batteries BA151
- Requires power supply NT92-UK

#### **SENNHEISER RI150**



Stethoset IR receiver.

- Mono wideband stethoset receiver
- Extremely reliable transmission due to new carrier frequency (2.3 MHz)
- Excellent speech intelligibility and good music reproduction
- Volume control
- Extremely lightweight only 30 g

- Operates on environmentally friendly rechargeable NiMH accupack
- call us now on: +44 (0)1663 767 888

## assistive hearing - infra-red

#### SENNHEISER RI150LL



Mono neckworn IR receiver (2 3 MHz) with loop for use with standard hearing aid systems

- · Wideband neckloop receiver
- Extremely reliable transmission due to new carrier frequency (2.3 MHz)
- Volume control
  - Extremely lightweight only 30 g
  - Very easy to use
  - Operates on environmentally friendly rechargeable
  - BA151 NiMH accupack

#### **SENNHEISER BA151**



SENNHEISER KR20-7

**SENNHEISER KK20-7** 

Additional rechargeable battery pack for R1150 & R1150LL

7 metre extension cable for SI30 & SZI30 infra-red

#### **COMMERCIAL AUDIO WBSI30**



WBSI30 – Wall-mounting bracket for Sennheiser Infra-red

- Sturdy mild steel universal mounting bracket in black
- Designed for direct mount of SZI1015/SZI1015T radiators
- Accepts IZK20 mounting clamp for SI30 and SZI30
- Supplied individually

#### SENNHEISER IZK20



Mounting clamp for \$130 and \$Z130 transmitters

#### SENNHEISER KK20-1



1 metre DC extension cable for \$130 & \$Z130 texas socket

#### SENNHEISER KKY20-015



4 way octopus lead DC extension cable. 4 x texas socket to 1 x texas plug 15cm



15cm extension cable for use with IZM20 cluster mount for

7 metre DC extension cable for SI30 & SZI30 texas socket

to texas plug

#### SENNHEISER IZM20



Cluster mount for 4 x SI30 or SZI30

www.commercialaudiosolutions.com

## assistive hearing - infra-red (for large room / auditorium)

#### **LISTEN TECHNOLOGIES LT82-02**



The Listen LT-82 is the heart of a stationary IR listening system. It takes the desired audio signal and transmits the signal via coaxial cable to one or more IR radiator-emitters (LA-140). The LT-82 can be operated in mono or stereo on one of four different carriers up to four LT-82 units may be connected to provide up to four mono or stereo carriers to the radiator(s). The LT-82 generates DC power up to two LA-140 radiator-emitters. Two LT-82 units can be radiator mounted in one rack space using the LA-326 rack mounting kit. The LT-82 is used for government compliance (such as ADA) assistive listening language interpretation live theatre houses of worship courtrooms secure rooms and for auditory description.

- Secure wireless communication ideal for applications where isolation of the signal is important
- Up to four channels mono or four channels stereo no need to sacrifice multiple channels to achieve stereo transmissions (one LT-800 is required for each channel)
- Outstanding performance ensures crystal clear sound for listeners
- . LA326 rack mounting kit for single or dual mounting. Includes security cover

#### **LISTEN TECHNOLOGIES LA140**



The LA-140 IR radiator/emitter packs high infrared power in a small and attractive design with your choice of grey or white packaging. Designed for easy installation using standard components the LA-140 is powered via CAT-5 cabling while the RF modulated carriers are delivered via standard RG-58 coaxial cable. Mounting brackets are included for wall ceiling desk mic stand and tripod mounting. Power can be supplied by the LT-82 transmitter or from a separate power supply (LA-205). Built-in delay compensation prevents signal cancellation (multi-path) problems and eliminates the piled-up cabling that is required with other systems. The LA-140 is used for government compliance (such as ADA) assistive listening language interpretation live theatre houses of worship courtrooms secure rooms and for auditory description.

- Outstanding coverage 10 000 square feet (929 square meters)
- Two radiators can be powered from one LT-82 transmitter or optional power supply using standard CAT-5 cabling eliminating the need for multiple
- · White or grey color allows for a variety of aesthetic settings

#### LISTEN TECHNOLOGIES LA205-02



The LA-205 Stationary IR System Power Supply is a replacement for the LT-82 power supply or can used to power an additional two (2) stationary IR radiators. The power supply connects to the transmitter or the radiators via CAT-5 cabling for simple installation. This unit can be specified for North America Europe or United Kingdom

- Standard CAT-5 connection easy and inexpensive
- Available for multiple countries can be used in many places ground the world

#### **LISTEN TECHNOLOGIES LR42**



Users will love the comfortable, easy to use Listen LR-42 Stetho Receiver. This all-in-one receiver can receive up to four channels in mono or stereo. It uses standard AAA alkaline batteries for more than 30 hours of use or a NiMH rechargeable battery pack that delivers 15 hours of use per charge. The unit features auto shut-off after 30 minutes of no audio carrier further extending battery life. The LR-42 boasts high performance audio specs in a small package and is compatible with other manufacturers' products. The LR-42 is used for government compliance (such as ADA) assistive listening language interpretation live theatre houses of worship courtrooms secure rooms and for auditory description.

- Stylish all-in-one unit stetho design no wires to tangle for easy distribution
- Receives up to 4 channels mono or stereo provides outstanding performance with crystal clear sound
- Uses standard AAA batteries (available anywhere) or rechargeable Listen NiMH battery pack gives you ultimate flexibility in managing battery life

#### LISTEN TECHNOLOGIES LR44



The Listen LR-44 Lanyard 4-Channel IR Receiver is comfortably worn around the neck and earphones are plugged into the receiver. The receiver can receive up to four channels in mono or stereo. It uses standard AAA alkaline batteries for more than 30 hours of use or a NiMH rechargeable battery pack that delivers 15 hours per charge. The unit features auto shut-off after 30 minutes of no carrier further extending battery life. The LR-44 boasts high performance audio specs in a small package and is compatible with other manufacturers' products. The LR-44 is used for government compliance (such as ADA) assistive listening language interpretation live theatre houses of worship courtrooms secure rooms and for auditory description

- Accepts most types of earphones gives flexibility to the user preference of earphone
- Stylish comfortable design and easy to use
- Adjustable lanyard to get just the right fit
   Receives up to 4 channels mono or stereo provides outstanding performance with crystal clear sound

#### LISTEN TECHNOLOGIES LR166



This deceptively simple looking loop acts as a remote connection to hearing aids equipped with a T coil. Listeners hook the loop into their wireless

- Use with T coil hearing aids

Liahtweiaht

#### **LISTEN TECHNOLOGIES LA350-02**



The LA-350 is the simple solution for charging batteries and for storage/distribution of receivers. It holds up to eight LR-42 Stethoscope and/or LR-44 Lanyard Receivers in any combination. In addition if can separately charge up to eight NiMH battery packs allowing you to have charged battery packs ready for receivers. The LA-350 is designed to be mobile or permanently mounted on a desk or on a wall. Batteries are automatically charged with green and red LEDs indicating the charge status.

- Compact design Reduces the hassle of storing receivers and charging batteries
- Multiple unit storage Stores and charges eight LR-42 and/or LR-44 receivers and/or eight LA-364 NiMH Rechargeable Battery Packs
- Convenient tidy rack allows you to manage earphone cables and the lanyards on the LR-44 receiver

### **LISTEN TECHNOLOGIES LA364**



The LA-364 IR NiMH Rechargeable Battery Pack is used with the LR-42 and LR-44 receivers, and offers the user the ability to use the pack to power Listen. IR Receivers. The battery pack can be charged using the LA-350 8-unit IR Charging/Storage Station either in the receivers or as back-up packs in the charging station. The LA-364 pack offers the user up to 15 hours of receiver operation before needing to be recharged.

- High capacity offers the user up to 15 hours of receiver operation before needing to be recharged
- Versatile you can charge back-ups to be used as needed

## assistive hearing - soundfield

Under quiet classroom conditions, most teachers have enough natural volume in their voice to communicate effectively with a standard sized class. However, a number of acoustic factors (lively/noisy classes, reverberant room conditions, ambient noise from equipment and outside, hearing difficulties, etc.) can have a significant effect on clear, effective teacher/pupil communication.

The inclusion of a Soundfield System in the classroom will raise the teacher's voice above this ambient noise level, to give even voice coverage throughout the room and without the need to shout or raise one's voice.

What is a Soundfield System?

In it's most simple form, a Sound Field Voice Reinforcement System consists of the following components:

- Wireless microphone and receiver
- Amplifier
- Loudspeakers
- Connection Cables

However, due to the many differing conditions one may find within the classroom (type of classroom, size, number of pupils, ambient noise level, etc.), a Sound Field system can be designed and specified to give the best results for a given application, using a different number of speakers, different types of speakers, system positioning, inputs for AV equipment,

Utilising our preferred infrared (IR) Soundfield System, there is a further logistical advantage to teachers over radio frequency (RF) Microphone systems. As IR systems are not frequency specific, the teacher can move from room to room without having to alter the microphone settings and interference between adjacent classrooms is negated.



#### SOUNDFIELD PACK A

standard classroom Infra-red soundfield system

Complete beltpack infrared system with chargers and batteries plus 2 extension sensors.

- 1 x Amplified flat ceiling panel speaker
- 1 x CD/Laptop wall plate
- 1 x Equipment support tray with safety bonds and clips
- 1 x Infrared belt pack
- 1 x Infrared Emitter/Microphone
- 1 x Infrared Receiver
- 2 x Infrared Sensor c/w 10m extension cords
- 1 x Charger for infrared belt pack c/w rechargeable batteries
- Connection cables installation instructions and manuals

### **SOUNDFIELD PACK B**

large classroom infra-red soundfield system

As PACK A but with extra ceiling panel speaker for extended coverage

- 1 x Amplified flat ceiling panel speaker
- 1 x Extension Panel speaker
- 1 x CD/Laptop wall plate 1 x Equipment support tray with safety bonds and clips
  1 x Infrared belt pack
- 1 x Infrared Fmitter/Microphone
- 1 x Infrared Receiver
- 2 x Infrared Sensor c/w 10m extension cords
- 1 x Charger for infrared belt pack c/w rechargeable batteries

#### SOUNDFIELD PACK C

music/drama infra-red soundfield system

As Pack A but utilizing Propagel speaker for dynamic audio performance such as music

- 1 x Amplified Pro Panel flat ceiling panel speaker
- 1 x CD/Laptop wall plate
- 1 x Equipment support tray with safety bonds and clips • 1 x Infrared belt pack
- 1 x Infrared Emitter/Microphone
- 1 x Infrared Receiver
- 2 x Infrared Sensor c/w 10m extension cords
- 1 x Charger for infrared belt pack c/w rechargeable batteries

wall mount speaker infra-red soundfield system

For applications where ceiling panels cannot be used.

- 4 x Wall mount Speakers
- · Stand alone amplifie 1 x CD/Laptop wall plate
- 1 x Infrared Emitter/Microphone
- 2 x Infrared Sensor c/w 10m extension cords
  1 x Charger for infrared belt pack c/w rechargeable batteries

#### **SOUNDFIELD PACK D**

- 1 x Infrared belt pack
- 1 x Infrared Receiver
- Connection cables installation instructions and manuals

## **sigtel** - emergency voice communication system

- Meets and exceeds the requirements of BS 5839 part 9
- Ideal for all disabled refuge, fire telephone and stadium marshal applications
- New Compact 1-8 line (expandable to 16) wall-mounting central control unit saves valuable desk and floor space in crowded control rooms
- New Type B stainless steel 'Disabled Refuge' outstations offer true duplex hands-free speech flush, surface and weatherproof versions are available
- Type A 'Fire Telephone' outstations come in locking or non-locking red steel cabinets and offer true duplex speech - semi-flush, surface and weatherproof versions are available.
- 16-128 line wall/desk mounting central control equipment also available for larger systems
- Unique 'auto-learn' facility allows fast network set up
- All extensions can be named with user-defined text of up to 15 characters
- Fully monitored hardware and software
- System operates at 24 VDC
- In the event of mains failure, operation can be maintained for 24 hours (standby) and 3 hours (in use) using 2 x 12V 7 Ahr batteries
- Optional line tester allows cable faults to be checked prior to equipment connection
- Ideal for hotels, shopping malls, office blocks, transport terminals, banks, sports stadia, entertainment complexes, auditoria, etc.

Disabled refuge, fire telephone & stadium marshal applications



For most people, a simple instruction like "please leave the building by the nearest available exit" can be acted upon quickly and easily. But for wheelchair users, the disabled and infirm, this isn't always the case.

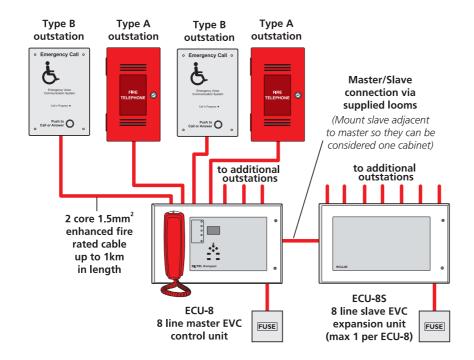
Current Building Regulations recognise this and insist that all new nondomestic buildings with more than one storey provide 'refuge' areas – relatively safe places where people who cannot easily use fire escapes and evacuation lifts can call for assistance and wait until help arrives.

Simple, effective two-way communication in these areas is essential, firstly to assist rescue teams in determining where assistance is required and secondly to reassure people help is on the way.

Communication systems in refuge areas are known as Emergency Voice Communication (EVC) Systems. Their design and installation is governed by BS 5839 part 9 and SigNET's recently expanded SigTEL system is now suitable for use in all types of EVC application – be it a disabled refuge, fire telephone or stadium marshal system.

Not only is the system incredibly easy to use, it is hugely cost-effective in comparision to others on the market.

#### A typical 1-16 line SigTEL Compact Emergency Voice Communication System



## sigtel - emergency voice communication system

#### About the SigTEL Emergency Voice Communication System

SigTEL comprises two different types of central control equipment - a new low-cost all-in-one wallmounting compact version which can handle up to 8 lines (expandable to 16) and a 16-128 line modular wall/desk mounting version. Both are typically located in a building's control room (or on smaller applications at a fire access point) where they allow management and/or the fire services to communicate via a telephone-style handset with the system's 'outstations'. Two types of SigTEL outstation are available - Type A (fire telephone-style) and Type B (handsfree intercom-style). Both types of outstation connect to SigTEL's central control equipment using two cores of 1.5mm2 enhanced fire rated cable of up to 1km in length.

# Key System Compact 1-16 Line Central Control Equipment

Usually located in a building's control room or fire access point, our new ECU-8 8 Line Master EVC Control Unit is supplied complete with line cards, a handset and a backlit liquid crystal



display. It allows the operator to communicate with up to eight Type A or Type B outstations (any mix). An eight line expansion unit (the ECU-8S 8 Line Slave EVC Expansion Unit) is also available to increase the system's outstation/line capacity to 16. Both units are designed to be wall-mounted.

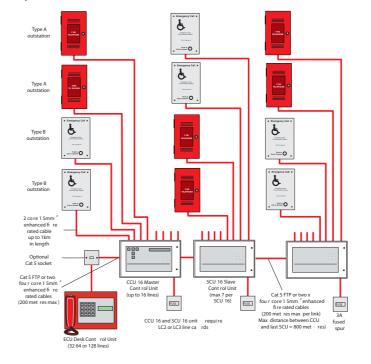
#### Modular 16-128 Line Central Control Equipment

Our modular 16-128 line control equipment

comprises one CCU-16 16 line Master Control Unit and up to seven SCU-16 16 line Slave Expansion Units. Line cards are not included but can be purchased separately. For every two Type A outstations connected, an LC2 2-Way Line Card is required and for every two Type B outstations, an LC3 2-Way Line Card is

required. A separate ECU Desk Control Unit is also required to allow operators to communicate with the system's outstations. Three versions are available, the ECU-32, which can control up to 32 lines; the ECU-64 (up to 64 lines); and the ECU-128 (up to 128 lines).

## A typical 16-128 line SigTEL Emergency Voice Communication System



#### Type A 'Fire Telephone' Outstations

Fire telephone and stadium marshal systems use 'Type A' telephone-style outstations. SigTEL's THS1-E Type A Outstations comprise a telephone handset in a lockable red steel cabinet (right). They are typically located at entrances and fire-fighting lobbies to allow fire marshals to communicate with building control during an emergency. Their housings have openings which allow the phones to be heard and they are

FIRE TRACEPHONE

designed to be surface or semi-flush mounted using the T-BEZ Bezel. A Type A outstation with a non-locking handle (the THS1-EH) is also available.

#### Type B 'Disabled Refuge' Outstations

Disabled refuge systems use 'Type B' handsfree intercom-style outstations. SigTEL's new EVC302 Type B outstations (right) offer true hands-free duplex speech and allow anyone in a refuge area to communicate with building control at the touch of a button and vice versa. Attractively finished in brushed stainless steel, they include connections for an optional induction loop system for the hard of hearing

Emergency Call

Graphy Man
Communities Spain

Call or Answer

Call or Answer

and a general purpose output that closes on activation of the unit for the optional connection of strobes, CCTV activation relays, etc. Flush (EVC302F) and surface (EVC302S) versions are available together with an optional weatherproof enclosure.

#### FiTT Line Tester

Allows cable faults to be checked and cleared prior to equipment connection, greatly simplifying system commissioning.

#### SigTEL Compact 1-16 Line Dial/Control Units

ECU-8 8 Line Master EVC control unit (needs 2 x NP7 2-12 batteries)

**ECU-8S** 8 Line Slave EVC expansion unit (max. 1 per ECU-8)

AFP385 Grey flush bezel for ECU-8 or ECU-8S

#### SigTEL 16-128 Line Control & Dial Units

CCU-16

16 line master EVC control unit (needs 2 x NP7 2-12 batteries)

SCU-16

(Requires ECU desk dial unit and LC2/LC3 line cards)

LC2

16 line slave EVC expansion unit (max. 7 per CCU-16)

LC3
2-way line card for Type A Outstations

SVMM
2-way line card for Type B Outstations

SVMM/C
Two message card for CCU (optional)

AFP385
Custom message card for CCU (optional)

ECU-32
Grey flush bezel for CCU-16 or SCU-16

ECU-64 32 line Desk control unit with handset and display
ECU-128 64 line Desk control unit with handset and display
ECUWMB 128 line Desk control unit with handset and display
Type A Wall Mount Bracket for ECU-32 ECU-64 ECU-128

**THS1-E/MK4** Fire Telephone Outstations

THS1-ET/MK4 Fire telephone EVC outstation c/w handset & key
T-BEZ Fire telephone EVC outstation c/w handset & T-Bar
THS/MK4 Red flush bezel for THS1-E/MK4 and THS1-ET/MK4

Type B Red desk mounted telephone ONLY
EVC302F Disabled Refuge Outstations

EVC302S Handsfree EVC outstation stainless steel flush
BF359/1 Handsfree EVC outstation stainless steel surface

Weatherproof enclosure for EVC302F/S

## assistive hearing - counter audibility

#### **CAS XO2 SYSTEM**



Highly compact audibility system designed to be unobtrusive when installed in applications such as banks turnstiles post offices etc. The system includes a built-in induction loop amplifier to comply with the disability discrimination act.

2 way fully duplex

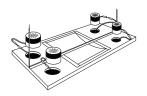
all options use 2.5 full range driver units Speakers

Electret condenser (directional) Microphone

12 watts RMS 20Hz - 2.5kHz Frea. Res

200x60x150mm (main unit speaker dimensions see below) There are install options available (order as below)

#### **CAS XO2 FLAT COUNTER SYSTEM**

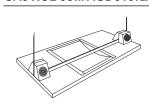


Flush-mount speaker/mics with under counter amplifier and loop system

Cut out

90mm dia

#### **CAS XO2 SURFACE SYSTEM**



Surface-mount sloping speaker/mic cabinets

depth

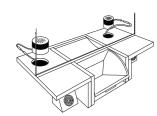
95mm

120mm

9.5mm

35mm

#### **CAS XO2 SPLIT LEVEL SYSTEM**



For applications where counter space is at a premium. Flush-mount speakers on the public side and under-counter speaker and mic on the flush-mount speakers

110mm dia cut out 90mm dia depth 105mm

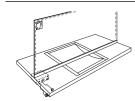
under counter speake

depth front height rear heigh

separate mid

35mm depth 20mm height 30mm

#### **CAS XO2 SPLIT LEVEL SYSTEM**



High-level space-saving window-mount speakers and window-mount

window-mount sloping speaker/mic cabinets width 120mm front height 35mm rear heigh

mullion/window

40mm x 60mm

#### **CAS XO2 WINDOW SYSTEM**



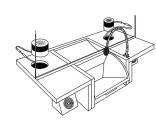
High-level space-saving window-mount speakers and window-mount

window-mount sloping speaker/mic cabinets width 120mm depth front height 35mm rear heigh

mullion/window-mount microphon

40mm x 60mm

#### CAS XO2 NOISY ENVIRONMENT SPLIT-LEVEL SYSTEM



Includes gooseneck microphone to reduce background noise being

flush-mount speakers

cut out depth under counter speake

front height rear heigh

gooseneck microphone

length microphone

depth

electret condense (directional)

90mm dia

120mm

35mm

## microphones - vocal / stage

#### SENNHEISER E815SX & SJ



The e 815SX is a cardioid general purpose microphone ideal for vocal and instrument miking karaoke and club

- Rugged metal body
- Excellent feedback and spillage rejection
- Good suppression of handling noise
- Balanced frequency response
  Warm transparent tonal response
- Silent ON/OFF switch
- 815SX has XLR XLR connection cable (3 m)
- 815Sj has XLR 1/4 Jack connection cable (3 m)



**SENNHEISER E835** 

The e 835 is a cardioid lead vocal stage microphone specially designed to perform under pressure.

- Rugged metal body
- Excellent feedback rejection
- High sound pressure handling capability
- Shock-mounted capsule provides excellent suppression of handling noise
- Uniform on- and off-axis response
- Cardioid pick-up pattern provides isolation from other
- on-stage signals
- High quality carry pouch

#### SHURE SM58S



Switched version of Shure's leaendary vocal microphone Tuned to accentuate the warmth and clarity of lead and backing vocals as well as an ideal instrument mic for

Frea response 50Hz - 15kHz Dynamic Capsule Impedance 1500hm Weiaht 298a

Supplied with swivel adaptor and storage bag (no cable (beilgaus

#### **AUDIO TECHNICA MB1K**



perfect introductory performance mic the high-output MB 1k is designed for use as a lead backup or choral vocal microphone

- High-output design for vocals that cut through the mix
- Unidirectional dynamic element design
- Rugged all-metal construction
   Hi-ENERGY® neodymium magnet for improved output
- and transient response
- Reduced handling noise thanks to anti-shock
- Silent on-off operation thanks to MagnaLock™ switch
- Corrosion-resistant gold-plated XLRM-type connector

### **AUDIO TECHNICA MB3K**



The Midnight Blues Series standout performance microphone the MB 3k dynamic vocal microphone has an extended frequency response specifically developed to capture lead backup and choral vocals.

- Standout performance microphone for lead back-up and choral vocals
- Extended frequency response for optimal vocal reproduction
- · Unidirectional dynamic element design
- Rugged all-metal construction
- Hi-ENERGY® neodymium magnet for improved output and transient response
- Soft-touch finish for a secure comfortable grip
- Silent on-off operation thanks to MagnaLock<sup>™</sup> switch
- Corrosion-resistant gold-plated XLRM-type connector
- 5-year warranty

#### **SENNHEISER E825S**



The e 825 S is a cardioid general purpose microphone ideal for vocal and instrument miking and club PA.

- Rugged metal body
- Excellent feedback and spillage rejection
- Good suppression of handling noise
- Balanced frequency response
   Warm transparent tonal response
- Frequency response 80 -15kHz
- Silent ON/OFF switch
- XLR XLR connection cable (3 m)

#### SENNHEISER E840 & 840S



Professional cardioid vocal microphone developed to cut through high on-stage levels.

Famous Sennheiser model refined over 60 years

- Rugged metal housing
- Shock-mount capsule
- Frequency-independent directivity
- Highly insensitive to feedback
- Excellent vocal projection Hum compensating coil
- Delivery includes protective pouch and MZQ 800 microphone clip
- E840S has noiseless on off switch

#### WHARFEDALE DM2.0



Dynamic Microphone 3- pack.

The DM2.0 is a hand held dynamic microphone featuring a super-cardioid pattern to minimize feedback and effectively reject signals not originating in front of the microphone capsule

- Unidirectional dynamic microphone with exceptional feedback rejection
- Neodymium magnet for high output low distortion clean sound
- · Dent-resistant spring-steel grill
- Rugged cast Zinc alloy body ensure reliable performance in even the most demanding environments.
- 3 x pack with carry case and mic clips Gold-plated XLR connector

## **AUDIO TECHNICA MB2K**



The industry standard for affordable instrument microphones the MB 2k features a unidirectional dynamic element design for outstanding off-axis rejection and feedback control

- Smart-priced introductory microphone for amplified and acoustic instruments
- Tailored frequency response for optimal instrument reproduction · Unidirectional dynamic element design
- Rugged all-metal construction
- Hi-ENERGY® neodymium magnet for improved output and transient response · Soft-touch finish reduces mechanical noise
- Silent on-off operation thanks to MagnaLock™ switch Corrosion-resistant gold-plated XLRM-type connector
- · 5-year warranty

### **AUDIO TECHNICA MB4K**



A price/performance leader the MB 4k cardioid condenser microphone is the Midnight Blues Series' introductory studio-quality microphone.

• Introductory studio-quality microphone—the clear price/performance leader

Condenser design for studio-quality vocal and instrument applications

Extended response for smooth natural sonic characteristics

Rugged all-metal construction and on/off switch

 Soft-touch finish for a secure comfortable grip and reduced mechanical noise · Battery/phantom operation for maximum versatility

Corrosion-resistant gold-plated XLRM-type connector

5-year warranty

www.commercialaudiosolutions.com

#### **AUDIO TECHNICA PRO45**



With robust construction and unobtrusive appearance the PRO 45 and PRO 45W offer versatile soundreinforcement solutions for speech theatre orchestra and choir sound reinforcement and recording. Available in Black (PRO 45) or white (PRO 45W).

- Hi-SPL handling is ideal for suspension over choirs and
- Wide-range condenser element with low-mass diaphragm for superior performance
- Self-contained electronics eliminate need for external power modules
- Flat smooth frequency response
- 25' (7.6 m) cable permanently attached between microphone and XLRM-type connector

#### **AUDIO TECHNICA PRO49Q & QL**



The PRO 49Q quick-mount double-gooseneck cardioid condenser microphone is designed to plug into any standard XLRF-type surface or cable connector.

- Wide-range condenser element with low-mass diaphraam for superior performance
- Self-contained electronics eliminate need for external power modules
- Flat smooth frequency responseQuiet fixed-placement long-life gooseneck
- Plugs into any standard XLRF-type surface or cable connector
- Overall length of 13.07 (332.0 mm)
- Also available in a 16.46" (418.0 mm)-long version as PRO 49QL

#### **BEYER DYNAMIC MPC22**



A discreet microphone with a half-cardioid response for integration within e.g. boardroom or conference tables. Can also be used for assistive hearing telephone and video conferencing systems. Available in black white or silver.

- Half-cardioid pattern
- · High Gain before feedback
- Flat/wide range frequency response
- 200ohm impedance
- Requires 8-52V phantom power
- Weight approx 70a

#### **BEYER DYNAMIC MPC66V**



For use with discussion systems sound re-inforcement churches and situations where multiple mics need to be open. Available in black or white.

- Half spherical omni-directional response
- Very high speech quality reproduction
- 124 ohm impedance
- Requires 8-52V phantom power
- Weight approx 240a

#### **AUDIO TECHNICA PRO47T & TL**



This double-gooseneck cardioid condenser microphone with integral power module and 5/8 -27 adapter-mount is ideal for boardroom school government house of worship and other installed applications.

- Wide-range condenser element with low-mass diaphragm for superior performance
- Self-contained electronics eliminate need for external power modules
- Flat smooth frequency response
- Quiet fixed-placement long-life gooseneck
- Direct mounts to any 5/8 -27 stand or to included threaded mounting stud
  S.8' (3.0 m) cable permanently attached between microphone and XLRM-type connector
- Overall length of 12.40 (3150 mm)
- Also available in a 15.79" (401.0 mm)-long version as

#### **COMMERCIAL AUDIO CAS345**



This low-profile omni-directional condenser boundary microphone is designed for clear highly intelligible sound reinforcement professional recording and teleconferencing in table ceiling or panel-mount applications.

- Designed for surface-mount applications such as highquality sound reinforcement professional recording and teleconferencing

  • Low-profile element provides uniform omnidirectional polar pattern with 360° acceptance angle
- Mounts unobtrusively in table-tops ceilings and wall
- XLRM-type output connector
- Rugged all-metal case with a two-layer steel mesh grille
- Requires 9V to 52V DC phantom power
- Available in two colors: black and white

#### **BEYER DYNAMIC MPC65V**



For use with discussion systems sound re-inforcement churches and situations where multiple mics need to be open. Available in black or white.

- · Condenser mic
- Half cardioid responseHigh Gain before feedback
- 180 ohm impedance
- Requires 8-52V phantom power
- Weight approx 240g

#### **BEYER DYNAMIC SHM22 F**



Directional microphone on a metal plate for wall or ceiling mount applications. Ideal for interview rooms assistive hearing applications and general purpose situations where a fixed mic is desirable.

- Cardioid polar pattern
- Elegant appearance
- Good rejection of ambient noise
- Wide linear frequency response optimized for speech
- Requires 8-52V phantom power

## **microphones -** wireless

ATW251H - Simple to set up and use VHF non-diversity

· Non-diversity single-channel dual antenna system

Available in three travelling frequencies 173.800 MHz 174 600 MHz and 175.000 MHz

Approximately 15 hours (high) 20 hours (low) battery

8 selectable frequency-coordinated UHF channels

Use up to 8 simultaneous systems—all channels

Diversity operation for increased range/reliability

LED Channel display plus Antenna AF Peak indicators

Balanced XLR and unbalanced ¼ output connectors

Tone Lock™ squelch system eliminates interference when transmitter is off
 Handheld transmitter features: variable trim control

internal channel selector multi-color battery/power

or dance/aerobic applications.

Adjustable squelch control

• Headworn PRO8HEcW microphone

ATW702F - UHF Handheld radio mic system

Automatic frequency scanning

indicator AA operation

Fixed channel

Includes windscreen

Headset/beltpack radio mic system, Ideal for hands free

#### **AUDIO TECHNICA ATW251P**



ATW251P - simple to set up and use VHF non-diversity Lapel/beltpack radio mic system, Ideal for presentation

- · Non-diversity single-channel dual antenna system Fixed channel
- Available in three travelling frequencies 173 800 MHz 174.600 MHz and 175.000 MHz
- · Adjustable squelch control miniature cardioid condenser lavalier microphone
- Includes clothing clip and windscreen
- Approximately 15 hours (high) 20 hours (low) battery

#### **AUDIO TECHNICA ATW701FP**



**SENNHEISER FP12-EUK** 

ATW701FP UHF lapel/bodypack transmitter radio mic

Audio-Technica's 700 Series wireless delivers professional features and sound quality unheard of in its class. These easy-to-use wireless systems feature eight selectable frequency-coordinated channels diversity operation for increased range/reliability automatic frequency scanning Tone Lock<sup>TM</sup> squelch and more. 700 Series systems come equipped with your choice of handheld headworn or lavalier microphones or choose a system designed for guitar hookup. For multiple-mic applications as many as eight systems may be used together

- 8 selectable frequency-coordinated UHF channels
- Use up to 8 simultaneous systems—all channel compatible
- LED Channel display plus Antenna, AF Peak indicators
- Balanced XLR and unbalanced ¼ output connectors \*Tone Lock™ squelch system eliminates interference when transmitter is off
- · Compact lapel mic included
- UniPak™ transmitter features: separate mic trim control switchable high/low RF power internal channel selector multi-color battery/power indicator AA

The Freeport Presentation Set ensures maximum speech

theater performances. The system includes a bodypack

comprehensibility during lectures presentations and

transmitter a diversity receiver and an inconspicuous

clip-on microphone with an omni-directional pick-up

4 switchable UHF frequencies for interference-free

Diversity Technology for highest reception quality

Dynamic processor for cristal-clear sound bodypack transmitter with omni-directional clip-on lapel

Adjustable Squelch for undisturbed operation

Receivers built in robust metal housing

# **SENNHEISER FP35-EUK**

**AUDIO TECHNICA ATW251H** 

**AUDIO TECHNICA ATW702F** 



The Freeport UHF Handheld Vocal Set includes a handheld transmitter with a dynamic capsule cardioid and a diversity receiver. The transmitter is exceptionally comfortable to hold and provides a lively and assertive

- 4 switchable UHF frequencies for interference-free reception
- Absolutely safe transmission
- Diversity Technology for highest reception quality Adjustable Squelch for undisturbed operation
- Receivers built in robust metal housing
- Dynamic processor for cristal-clear sound
- Dynamic cardioid hand-held transmitte

### **SENNHEISER EVOLUTION G2 100 SERIES**

The 100 Series is ideal for stage productions and presentations. Featuring 9 frequency banks with 4 frequency presets each for direct channel selection and are ready for immediate use.

- 1440 tunable UHF frequencies for interference-free reception
- Absolutely reliable transmission and extended range due to high RF output pow High-quality true diversity reception
- Pilot tone squelch for eliminating RF interference when transmitter is turned off

reception

microphone

Absolutely safe transmission

- Automatic frequency scan feature searches for available frequencies
- Transmitter and receiver with rugged metal housings

SENNHEISER EW112G2

## SENNHEISER EW135G2



small SK100 G2 bodypack transmitter as well as the EM100 rack-mount received feature 9 frequency banks



The FW135G2 system is ideal for vocal applications. The SKM 135 G2 hand-held transmitter as well as the EM 100 G2 rack-mount receive feature nine frequency accessible presets each ready for immediate use

#### SENNHEISER EW152G2



• Receiver features user-friendly menu operation via backlit display

Wide range of accessories adapts the system to any requirement

Lock function avoids accidental changing of settings

Transmitter and receiver feature Low Battery indicators

HDX compander for crystal-clear sound

Mute function for the transmitter

This system is ideal for hands-free vocal and speech applications. The extremely small SK 100 G2 bodypack transmitter and the FM 100 G2 rack-mount frequency banks with four directly accessible presets each ready for immediate

call us now on: +44 (0)1663 767 888

www.commercialaudiosolutions.com

with 4 frequency presets each for direct channel selection and are ready for immediate use.

#### **SENNHEISER 100 SERIES CONTINUED**

#### **SENNHEISER EW145G2**



The ew 145 G2 has been designed for work on stage The low feedback SKM 145 G2 handheld transmitter as well as the FM 100 G2 rack-mount receiver feature nine frequency banks with four directly accessible presets each - ready for immediate use

#### SENNHEISER EW165G2



The excellent feedback rejection and wide dynamic range of the SKM 165 (condenser super-cardioid) make this system ideal for live stage work. The SKM 165 G2 handheld transmitter with an electret condenser capsule as well as the EM 100 G2 rack-mount receiver feature nine frequency banks each with four directly accessible presets - ready for immediate use.

#### **SENNHEISER EVOLUTION G2 300 SERIES**

Additional features over the 100 series include 8 preset channels with preset naming. Display colour change when problem occurs. Battery status indicator and rack mount kit included.

- Absolutely reliable transmission and extended range due to high RF output power
- · High-quality true diversity reception
- · Pilot tone squelch for eliminating RF interference when transmitter is turned off Automatic frequency scan feature searches for available frequencies
- Transmitter and receiver with rugged metal housings
- Rack mount included

- Transmitter with backlit display (lights up when a button is pushed) Receiver features user-friendly menu operation via two-colour backlit graphics display (green
  - = OK red = warning) Lock function avoids accidental changing of settings
  - HDX compander for crystal-clear sound
     4-step battery status display also transmitted to receiver

  - Mute function for the transmitter

#### SENNHEISER EW312G2 & 322G2



This system is ideal for theatre and presentation use. The clip-on microphone is virtually invisible. The extremely small SK300 G2 bodypack transmitter and the EM300 G2 rack-mount receiver feature nine frequency banks with eight directly accessible presets each - ready for immediate use.

- EW312 uses ME2 microphone (dynamic)
- EW322 uses ME4 microphone (cardioid condensor)

#### SENNHEISER EW335G2



The ew 335 G2 RF wireless system is an ideal choice for vocals and speech applications. It includes the SKM 335 G2 handheld transmitter with dynamic cardioid microphone head and the EM 300 G2 rack-mount receiver. They feature nine frequency banks with eight directly accessible presets each – ready for immediate

### **SENNHEISER EW345G2**



The ew 345 G2 RF wireless system is an ideal choice for stage work. It includes the EM 300 G2 rack-mount receiver and the SKM 345 G2 handheld transmitter with a dynamic super-cardioid microphone head that cuts through the mix. Receiver and transmitter feature nine frequency banks with eight directly accessible presets each - ready for immediate use.

#### SENNHEISER EW365G2



The ew 365 G2 RF wireless system has been designed for professional stage use setting new standards both in quality and sound. It includes the EM 300 G2 rack-mount receiver and the SKM 365 G2 handheld transmitter with a super-cardioid condenser microphone head. Receive and transmitter feature nine frequency banks with eight directly accessible presets each – ready for immediate

#### **AUDIO TECHNICA 1600 SERIES UHF RADIO MICROPHONES**

#### key features of the 1600 series

- 16 channel
- · Automatic frequency scanning
- True Diversity operation selects the better signal from the two receiver sections
- reducina dropouts
- Rugged metal half-rack receiver with soft-touch controls and LCD display featuring RF and AF metering

- Includes rack-mount kit and detachable UHF antennas
- Operating frequencies E Band: 795.500 to 819.025MHz F Band: 840.125 to 864 375MHz
- Dual independent RF sections automatic-switching diversit

## • Balanced XLR and unbalanced 1/4 output jacks enable use with a wide variety of

## Audio outputs Unbalanced: 52 mV (10k ohm load) ½ jack Balanced: 32 mV (10k ohm load) XLRM

#### **AUDIO TECHNICA ATW1661P**

#### lapel/bodypack system



- ATW-R160 receiver ATW-T161 UniPak® transmitter and AT829cW lavalier microphone.
- Body pack weight 90g requires 2 x AA alkaline

#### **AUDIO TECHNICA ATW1662** hypercardioid dynamic handheld



- ATW-T162 handheld hypercardioid dynamic microphone/transmitte
- Transmitter / mic weight 240g requires 2 x AA

#### **AUDIO TECHNICA ATW1661H** hypercardioid dynamic headset mic



- ATW-R160 receiver ATW-T161 UniPak® transmitter and PRO 8HECW hypercardioid dynamic headworn microphone
- Body pack weight 90g requires 2 x AA alkaline

#### **SCANNER PRO SU16-UHF** - 16ch uhf handheld system



- SU16 hand-held UHF diversity radio-microphone system offers the superior performance of UHF and the enhanced operation of switched diversity reception and is supplied complete as an outfit with SCS1 road tough moulded ABS carry case
- Easy to use and operate the SU16 features a comfortable balanced hand-held microphone housed in a high-impact ABS case with a premium dynamic capsule for exceptional headroom.
- The switch plate also incorporates a rotary switch for
- channel selection and a two stage gain switch enabling the SU16 to accommadate all vocal styles

  The Scanner SU16 receiver used with all SU16 systems is housed in a high-impact 1/2U ABS case featuring twin TNC antennae connections balanced XLR unbalanced jack outputs and variable squelch control

  The front panel features power on/off switch with
- indicator LED RF signal strength indicator diversity signal acquisition indicator AF signal strength indicator RF tester to aid free channel selection channel selector and audio level output

#### **SCANNER PRO SU16LVM** - 16ch uhf lapel/bodypack system



- The Scanner SU16 belt pack transmitter is designed for use with the SU16LVM lavalier tie-clip microphol
- Housed in a high-impact ABS case featuring on/off switch with battery status indicator which shows battery condition at switch-on and monitors battery usage during operation to indicate impending battery depletion via a high-intensity LED
- Automatic switching is incorporated to accept either instrument or microphone inputs via the recommended accessory cables. The SU16 transmitter pack is also suitable for use with dynamic condenser or phantompowered microphones
- A concealed control plate houses the channel selector switch and gain controls for instrument and microphone
- Omnidirectional condenser lavalier tie-clip microphone ideally suited for use by presenters public speakers in theatres churches and applications where discretion and clarity are essential

## **microphones -** wireless

#### **SCANNERPRO SU16HMA-OFT -** uhf headset/bodypack system



- The Scanner SU16 belt pack transmitter is designed for use with the SU16HMA condenser headset microphone
- Automatic switching is incorporated to accept either instrument or microphone inputs via the recommended accessory cables. The SU16 transmitter pack is also suitable for use with dynamic condenser of phantom-powered microphones
- Dedicated condenser aerobics microphone featuring extra-secure lightweight comfortable headband cable clip and super-flexible low-profile microphone boom with sweat-proof gland and moisture-resistant microphone capsule housing
- Housed in a high-impact ABS case featuring on/off switch with battery status indicator which shows battery condition at switch-on and monitors battery usage during operation to indicate impending battery depletion via a high-intensity LED
- A concealed control plate houses the channel selector switch and gain controls for instrument and microphone levels

Electret condenser mic

Cardioid characteristics

Low battery indicator

. Only 1 AA battery required

· Optimised for vocals and speech

Coverage 5 -120m

16 channels

• Built-in antenna

TOA WM5220 - uhf handheld transmitter/mic

#### TOA WT5810 - uhf receiver



- TOA Space Diversity technology
- 16 channel
- Triple squelch function suppresses noise Mixing input allows cascading of receivers
- 2 antenna
- Balanced XLR and unbalanced 6.3mm jack outputs
- Battery low indicator (transmitter)

### TOA WM5320 - uhf beltpack/lapel mic



- Omni directional mic characteristics
- Coverage 3-120m
- 64 channel
- Noise Sauelch Low battery indicator
- Only 1 AA battery required
- 3.5mm jack plua

#### JTS US-902 SERIES - dual 16 channel UHF radio microphone system

- Diversity technology permits minimum dropouts in the RF link
- Noise mute and pilot tone squelch circuit eliminate unwanted signal and noise interference

  • Adjustable squelch level
- LCD display
- Equipped with balanced and unbalanced outputs Tuned antennas extend the effective range of the wireless link
- 111 rackmount metal housing rackmount kit included



JTS US-902D/A Includes 2 handheld mics



JTS US-902D/B Includes 2 beltpack transmitters with lapel mic



JTS US-902D/C

 Kit includes 2 beltpack transmitters with Aerobic quality headset mic

#### JTS US-903DC/A - dual channel pll handheld uhf system



- Preset 4 groups each of 16 UHF channels
- Kit includes 2 handheld mics receiver and rack mount kit
- PLL synthesized technology ensures stable RF transmission and reception Diversity technology permits minimum dropouts in the RF link
- Lock-on function is provided
- LCD indicates channel RF/AF level
- Fauipped with 2 balanced and 1 unbalanced outputs
- Built-in charger for 4 pcs of AA battery
- PLL synthesized
- Extended dynamic range and smooth frequency response
- Advanced circuit and tone-key squelch

## microphones - in-ear monitoring

#### PROEL SIEM111 - in-ear monitoring system



- The SIEM-111 System features reliable JTS UHF PLL
- technology System comprises 1 x transmitter 1 x beltpack 1 x IE-1 in ear monitors carry case
- 961 selectable UHF channels available. As many as 16 sets of SIEM-111T transmitters can operate on the same
- The system offers 4 groups with each group having 16 compatible preset channels to choose from. This allows the monitor engineer to set up systems quickly and
- All metal case construction on both transmitter and
- Advanced circuitry assures outstanding signal-to-noise IF-1 and IF-6 earphones seal off the ear canal with ITS
- designed Dyna-Driver ear buds which reduce undesired stage noise and ambient sound levels 3 pairs of different sized Silicon sleeves included with the IE series earphones ensure a right fit for the users ear canal and comfort

#### PROEL SIEM111R - iem receiver pack



- Additional beltpack receiver Sturdy metal construction
- Up to 64 receivers can be used from one transmitter

#### **PROEL IE-1 -** in-ear stereo monitors



- Complete with protective case
- Comes with 3 pairs of silicon sleeves in different sizes

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Desk-mounted dynamic paging microphone with momentary push to talk button.

Fitted with 1.5m straight cable terminating in a 5 pin din

#### TOA PM660D



Elegant desk paging microphone.

- Push to talk switch Dynamic capsule
- Cardioid pattern
- Locking switch
- Low handling noise
- 600 ohm impedance balanced
- 2.5m cable with 5 pin din connector
   Freq range
   100Hz 10kHz
- Dimensions (wxhxd)

#### **BOSCH PLE-1CS**



Designed for use with the New Bosch Plena amplifier

The Plena tabletop microphone is a stylish high-quality tabletop unidirectional condenser microphone mainly intended for making calls in a public address system. Its heavy metal base and rubber feet ensures stability on any flat surface. The special design also allows the unit to be neatly flush-mounted in desktops.

- Stylish table-top unidirectional condenser microphone on a flexible stem
- · Phantom powered by amplifier
- Momentary or toggle PTT-key for calls with priority
- Green LED indicating microphone active

#### **BOSCH PLE-2CS**



2 zone call station designed for use with the New Bosch Plena amplifier range.

The PLE-2CD is a stylish high-quality 2 zone tabletop unidirectional condenser microphone to work in conjunction with the new PLE 2 zone Plena mixe amplifiers. Its heavy metal base and rubber feet ensures stability on any flat surface.

- 2 zone call station for use with 2 zone Plena mixer amps Stylish table-top unidirectional condenser microphone on a flexible stem
- Phantom powered by amplifier
   Momentary or toggle PTT-key for calls with priority contact
- Loop through option for up to 8 call stations
- Speech filter and limiter
- Selectable gain
- Output level control
- Green LED indicating microphone active and zone

### **BOSCH LBB1946/00**



Designed for use with the Bosch Plena amplifier range

The Plena Six-zone Call Station is a stylish high-quality call station with a stable metal base design a flexible microphone stem and a unidirectional condenser microphone. It can make calls to selected zones (one to six and all-call) in a public address system built around the LBB 1925/10 system preamplifier. In addition to tabletop use the special design enables the unit to be neatly flush-mounted.

- Stylish six-zone call station intended for LBB 1925/10 system pre-amplifier
  Unidirectional condenser microphone on flexible stem
- Six zone selection keys all-call key and momentary PTT-key for calls
- Selectable gain speech filter and limiter for improved intelligibility
- Multiple units can be daisy-chained

### CLOUD CDPM4



Multi-zone call station mics for use with Cloud zoning products.

- 4 Zone Call station mic
- Multi-mic daisy chain facility
- Ability to link up to 32 mics on 1 x system Simple CAT5 mic to mic cabling
- 'Paging Group' key assignmen
- Selected zone group or Call all paging.
- First come first served priority
- Busy indicator to show system in use.
- Any mic can be configured with ultimate priority · High quality cardiod capsule.
- Integral compressor.
- · A choice of chimes.
- Internal sounder
- A power supply is required for any extra mic when daisy chaining. Cloud CPMPSU

## **CLOUD CDPM8**



Multi-zone call station mics for use with Cloud zoning products

- 8 Zone Call station mic
- · Multi-mic daisy chain facility\*
- Ability to link up to 32 mics on 1 x system Simple CAT5 mic to mic cabling
- 'Paging Group' key assignment
- Selected zone group or Call all paging.
  First come first served priority
- Busy indicator to show system in use.
- Any mic can be configured with ultimate priority.
- High quality cardiod capsule. Integral compressor.
- A choice of chimes.
- Internal sounder
- A power supply is required for any extra mic when daisy chaining. Cloud CPMPSU

#### JEDIA JRC10



For use with Jedia JPA1120A and 1240A mixer amplifiers Individual zone selection and all call facility

- Remote activation of digital messages (JDM10A see related products)
- Chime activation
- Can daisy chain up to 3 call stations
- Uses Cat5 datalink cable
- System busy indicator LED
- Priority over other call station facility
- Requires 1 x JRR10 data receiver for each amp used (1 supplied with each mic)

### JEDIA JPTT10



- Ideal for priority input of JDM JPA (A) series and JMA
- Can be used for any system with phagonton power
- Switchable chime activation control
- · High quality robust gooseneck with heavy duty base
- · High quality condenser microphone

### **DENON PRO DNC100P**



The DN-C100P is the entry level rack-mountable CD player, Designed specifically for use in commercial installations from bars and clubs to education and the corporate sector its key attributes include simple operation reliability and excellent sound quality.

- Single disc player CD/CDR playback
- IR Control
- Optical Digital Output
- Program Playback
- Random PlaybackRepeat Playback (track & disc
- 3U with rack-mount kit

#### MARANTZ CD5001P



Suitable for a wide variety of commercial installation applications such as background music playback and telephone hold systems the CD5001P replaces the popular CD5400P as the entry-level CD player within the Marantz Professional Studioline range. The specification includes CD-R/RW Playback (of discs burned on both CD recorders and in PCs) CD Text and Pitch Control (+/- 15 steps) together with high quality analogue and digital outputs remote control and rack-mounting kit.

- Rigid metal chassis & solid metal front panel
- CD-R/RW Playback
- CD Text
- Pitch Control (+/- 15 steps)
- Optical and coaxial digital outputsHigh grade analogue outputs
- · High quality headphone output with level control
- IR remote control
- · 2U with rack mount kit

#### **PIONEER PDM426**



Cartridge based 6 play CD player with random and program play modes

- 6 play CD player (cartridge load)
- Infra-red remote supplied · Randon play across all discs
- Repeat play single track/all discs/all disc random/ programme tracks
- 32 track programmable across all discs

#### **DENON PRO DNC200P**



The latest in a long line of industry standard CD changers the DN-C200P is a five disc carousel model with CD and CDR MP3 and WMA compatibility infra red control and random program and repeat playback modes. Offering improved reliability it's is ideal for long-term installation

audio source - cd

- CD/CDR playback
- Playback MP3 and WMA (Windows Media Audio) files from CD-ROM
- Optical & Coaxial Digital Outputs

- Repeat Playback (track & 1 disc all discs)

#### MARANTZ CD4001P



With a five-disc carousel fully programmable playback plus random repeat and scan modes the CC4001P CD changer provides endless combinations of non-stop music for commercial installations. Its multi-read drive plays CD-Rs CD-RWs and MP3 as well as conventional CDs and features Digital Servo Drive for accurate

- Five disc CD changer with fast disc access
- Compatible with CD and CD-R/RW discs
  MP3 playability
- Multi-bit D/A conversion via CS4392 DAC
- Stable low resonance mechanism mounted on solid metal chassis
- Headphone output with adjustable volumeDigital coaxial and optical outputs

- Random and program play
- RS232c and Flasher In ports for system integration · Dedicated remote with direct disc access
- 3U with rack-mount kit



The Plena BGM source unit is the ideal high-quality source for background music (BGM) in public address systems. The unit consists of a DVD/CD-player and a digitally controlled FM/AM tuner in a compact 2U-high

- Source unit for background music
- AM/FM tuner with 10 presets and digital control
  Simultaneous operation of player and tuner
- Separate outputs and level control for player and tuner

## audio source - hard drive / mp3



Designed to broadcast automatically and unattended a large volume of music and audio messages. Functioning off-line the SP603 delivers unparalleled

You can prepare the tracks and audio messages on PC or Mac computer link the SP603 to the computer using the USB2 cable provided and transfer the selected tracks onto the SP603's hard disk (recognised as an additional drive)

The front face panel includes a keyboard to override the automatic mode adjust the bass and treble settings broadcast volume and mode (random

A LCD displays the name length and remaining time of the current track. The 19 -1U rack is easily integrated in an existing sound system

- Playback of MP3 on 80GB IDE hard disk
- Bit rate: any from 8 up to 320 Kbits and VBRs (variable compression)
- Supports short and long file names (up to 255 characters)
- Digital setting of volume bass and treble
  255 programs to broadcast advertising audio messages or musical style change volume adjustment start & stop
- Autoplay: starts reading automatically when the device is powered on can be de-activated • Broadcast mode: random sequential repeat one track
- RS232 link for firmware update and remote control of the module



into retail and leisure environments.

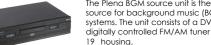
- IR Control
- Program PlaybackRandom Playback
- 3U with rack-mount kit



reading and fast track access.

- Thick aluminium front panel
- Auto Music Scan

#### **BOSCH PLN-DVDDT**



- DVD/CD-player for video and audio
- Supports MP3 JPEG and multi-format video outputs
- Combined output DVD/CD and Tuner with player

## **WAVE SYSTEMS SP603**



reliability performance and flexibility.

The same way the files can be updated moved renamed or deleted. No limit on the number of files. The standard 40Go hard disk will store over 650 hours of music (MP3 files at 128 Kbps). A larger hard disk - up to 120 Go can also be installed.

- USB Password protected access • LCD display: 2x16 characters: scrolling of file names time progress bar
- Update through USB 2.0 on PC (Win 98SE/ME/2000/XP) or MAC (MAC OS 9 x and later versions) Integrated clock for weekly programming of start and stop functions
- Different playlists for each day

## audio source - hard drive / mp3

#### **CAMPANELLE** - church bell reproducer



The SCE is an electronic reproducer of the sound of 50 bells with very high sound quality. It is equipped with an LCD graphic display of 8 lines of 40 characters each with icons to display the currently active function. A simple to use manual section permits the control of swinging or pealing of 6 bells.

The programming is made easier by the use of menus and the graphic display permits user icons showing the state of the programming and the activation

Its storing capacity is 1000 melodies and programs and the programming by personal computer makes the managing of the device very simple

- Available models: 150W 200W 300W and basic (without power amplifier).
- Auxiliary input to amplify signals coming from recorders compact mixer outputs (microphones)
- Control of tones volumes and monitor's volume.
- Sound fading general and for single bell.
- Volume reduction at night-time. Possibility of music scale variations.
- Direct section for the immediate start of 7 melodies of frequent use
- Connection to Standard Midi interface for the composition recording and playing of melodies.
- Composition & memorization of melodies in a very simple way with peelings & swinging of bells.
   Automatic & differentiated programming for periods of the year (eg: Summer Winter May etc.)
- Programming of fixed festivals (Christmas Immaculate Conception Assumption day) & movable festivals (Easter first Friday of the month etc.)
- Automatic programming of daylight-saving time.
- Automatic erasing of programs not to be repeated.
- Time-stroking in 22 different modes.
  Possibility of copying programs and melodies from & into another SCE reproducer.
- Programmable by personal computer also via telephone for easy installing maintenance & use.
- Data retaining unplugged for over 30 days.
- Dimensions: LxDxH (mm): 480 x 130 x 215 (including detachable side flanges for rack)
- Weight: 11 Kg (basic 150W and 200W) and 14 Kg (300W)

#### APART BGM3000 - mp3/cd/tuner



Compact 1U multi- gudio source, Digital FM tuner CD and USB MP3 player.

- Commercial heavy duty CD mechanism
- CD/CD-R playback
- Separate outputs for tuner and CD/MP3 Detachable rack mounts included
- Auto Switch from CD/MP3 to FM for uninterrupted operation
- - 40 second anti-shock buffer memory · USB MP3 input front and back

  - Infra-red remote control
  - 10 preset FM tuner with Stereo/mono switch

## audio source - tuners

#### **DENON DNU100P**



The DN-U100P builds on the success of Denon's long line of affordable easy to use tuners. Offering FM/AM bands 100 presets and auto/manual tuning the 2U rack mountable tuner is a simple and reliable solution for background music and radio monitoring applications.

- FM & AM band tuner
- 100 presets store up to 100 stations in banks of 10 (eg.1-10 A-J)
- IR Control (supplied remote)
- Auto & Manual tunina
- RDS (radio data system) displays the station name etc
- RT (radio text) displays information such as track title if broadcast
- Last Function Memory: if power is lost when the DN-U100 is switched back on it will always return to the last tuned station
- · 2U with rack-mount kit

#### **APART PR1000**



The APart PR1000 is a 19 AM/FM tuner. With only 1 rack unit height it takes very little space. The PR1000 is a user-friendly & easy to install tuner. The SCAN UP/DOWN function will automatically search for the next radio station with sufficient signal strength. Up to 10 frequencies can be stored using the MEMORY

- Tuning Range: 520 1710 Khz
- External antenna : AM antenna (included)
  Signal to noise ratio : 50dB
- Output : RCA Cinch
- Power supply: 230V
- Remote control : IR (included) / Wired via contacts on Euroblock
- Dimensions (H x W x D): 44 x 483 x 280 mm

### **APART PR4000**



The APart PR4000 is a sturdy 19 1U housing that contains 4 independent FM tuners

This QUAD tuner is ideal for multi room systems and matrix systems. Above all the PR4000 is a user-friendly and easy to install QUAD tuner. Each tuner can be controlled individually and can have 10 memory presets with scan facility.

The PR4000 can be controlled on the front panel or via the included IR remote control.

The output volume of each tuner can be controlled (-20 dB /+6 dB) via the attenuator at the back of the tuner. This way the volume level of each tuner will be equal and will match the levels of other sound sources in your music system

To optimise the sound quality and to avoid hum and buzz the PR4000 has a FM antenna ground isolator build in.

- Tuning Range: 87.5 108 Mhz
   External antenna: FM 75 Ohm (Ground isolator included)
- Frequency range: 20 Hz 15 kHz
  Usable sensitivity: 10 dBf
- S/N ratio: Mono/Stereo : 76 dB / 70 dB
- THD: Mono/Stereo: 0.5% / 0.7%
- Output : RCA Cinch
   Output level : Adjustable (FM: 900 mV / AM: 500 mV)
  - Power supply: 230V
  - Remote control: IR (included) Dimensions (H x W x D): 44 x 483 x 280 mm
  - Weight: 3.1kg
- 942.4mm height

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# **audio source -** tuners

#### ACOUSTIC SOLUTIONS SP111DAB



- Superb value for money separates DAB tuner in silver Digital audio broadcast radio tuner with FM
- High quality extruded aluminium finish
- · Headphone output
- Analogue & optical outputs
- 4 dedicated station presets
  Favourite station memory facility
- Auto scan feature for local and national stations
- Manual tuning aidLCD status display pane
- Station data display on LCD panel
  Remote control supplied. (operates whole SP separate range)

### JEDIA JCR10 - module for jedia mixer amplifiers



- Comes with aerial and all relevant connection
- 18 station preset memory
- 12 for FM and 6 for AM band
- Auto tuning
- Auto reverse cassette mechanism
- Gain control
- Can be used on all Mobile JPA JPA (A) and JPS series
- Can also be used with JME2 and 4A module nests

### JEDIA JTP10 - module for jedia mixer amplifiers

- Comes with aerial and all relevant connection · 18 station preset memory
- 12 for FM and 6 for AM band
- Auto tuning Gain contro
- Can be used on all Mobile JPA JPA (A) and JPS series
- Can also be used with JME2 and 4A module nests

#### **JEDIA JCDR10 -** module for jedia mixer amplifiers



- CD player with cue/random/repeat and intro scan play
- · Comes with aerial and all relevant connection
- 30 station preset men
- 18 for FM and 12 for AM band
- Auto tunina
- Auto reverse cassette mechanism Gain control
- Can be used on all JPA JPA (A) and JPS series amps (not Mobile series
- Can also be used with JME2 and 4A module nests

## 19" rack - flat-pack

#### **FLAT PACK SERIES**



Simple self assembly 19 enclosures flat-packed for cost-effective transportation and storage

- High quality steel construction in black finish
- Highly rigid when assembled • Front and rear mounting rails
- Slotted side panels for easy-mount rack support brackets Accepts front and rear-mounted doors
- Threaded base holes for castors
- Width: 522mm Depth: 480mm (external dimensions) Full range of rack accessories

#### R8400-6

- 6U Frame
- 320.1mm heigh
- R8400-16
- 16U Frame
- 764.6mm height
- R8400-28

R8450-20

• 28U Frame 1298mm height

### R8400-8

- 8U Frame

### R8400-20

• 20U Frame • 942.4mm heigh

409mm height

R8400-12

• 12U Frame 586 8mm height

- R8400-24
- 24U Frame 1120.2mm height

#### POLYCARBONATE/STEEL SURROUND GLAZED DOORS



R8450-6

- 320.1mm height
- R8450-12
- 12U door 586.8mm heigh

R8450-24

• 1120.2mm height

• 24U door

R8450-8

409mm height

764 6mm height

R8450-16

R8450-28

- 28U door • 1298mm height

## www.commercialaudiosolutions.com

## 19" rack - flat-pack (accessories)

#### **VENTED/GRILLE STEEL DOORS**



### R8460-20

- 942.4mm height

#### R8460-6

 All door • 320.1mm height

1120.2mm height

## R8460-12

• 12U door 586.8mm height

#### 16U door • 764.6mm height

R8460-16

R8460-8

8U door

409mm height

- R8460-24 R8460-28
  - 1298mm height

#### **BLANKING PANELS - steel powder coated black**



- **R1385/1U** 1U blank plate R1385/2U - 2U blank plate
- **R1385/3U -** 3U blank plate R1385/4U - 4U blank plate

#### **VENT PANELS -** steel powder coated black



- **R1279/1U -** 1U vent panel
- **R1279/2U -** 2U vent panel
- R1279/3U 3U vent panel R1279/4U - 4U vent panel

#### **RACK SHELVING**

## R1194/1UK



- · IU steel shelf
- Up to 15kg load capacity
- Powder coated steel in black
- 272mm deep

#### R1194/2UK

- · 2u steel shelf
- Up to 22kg load capacity · Powder coated steel in black
- · 368mm deep
- **RK322VMF** rack cooling fan assembly
  - 3U high

  - 230vAC

### SIDE SUPPORT BRACKET R0856K - single support bracket



- Clips into R8400 series rack system
- Gives extra support for heavy items
- · Powder coated steel in black 406mm deep

- Steel insert pins
- Rugged plastic construction
- Locking brake lever
- Screws directly in to R8400 rack sockets

CASTOR SET R8480 - 4 piece castor set for R8400 rack system

## 19" rack - pre-built

### P SERIES

70



- High-quality fully assembled welded steel racks for rigidity
- Heights available
- 515mm external depth (458mm deep internal fixing) All welded construction
- Powder coated steel in beige or black
- Ventilation slots at top and bottom of side panels Mounting runners front and rear as standard
- Complete range of accessories

- P06 6U rack
- Height 322mm
- **P12 -** 12U rack
- · Height 589mm
- **P20 -** 20U rack
- · Height 944mm

- P09 9U rack
- Height 455mm
- **P16 -** 16U rack
- Height 766mm
- **P24 -** 24U rack
- Height 1122mm
- call us now on: +44 (0) 1663 767 888

## 19" rack - pre-built

#### **GLAZED DOORS**

High quality acrylic glazed locking front door for P Series racks

- Lockable (with 2 x kevs)
- Acrylic safety glass with steel frame

P.GD.6 - 6U glazed rack door

- Factory fitted (order with rack)

P.GD.12 - 12U glazed rack door

P.GD.20 - 20U glazed rack door

P.GD.9 - 9U glazed rack door

P.GD.16 - 16U glazed rack door

P.GD.24 - 24U glazed rack door

#### STEEL DOORS

high quality vented steel locking front door for P Series racks

- Lockable (with 2 x keys)
- Steel mesh with steel frame

- · Factory fitted (order with rack)
- Colour as per rack
- P.SD.6 6U vented steel rack door
- P.SD.12 12U vented steel rack door
- **P.SD.20 -** 20U vented steel rack door

- P.SD.9 9U vented steel rack door
- P.SD.16 16U vented steel rack door

P.RP.16 - 16U vented steel rear panel

- P.SD.24 24U vented steel rack door

#### **REAR PANELS**

locking steel rear panel for P Series racks

**P.RP.6** - 6U vented steel rear panel

**P.RP.9** - 9U vented steel rear panel

- Lockable (with 2 x keys)
- vented steel pane
- Colour as per rack
- - P.RP.12 12U vented steel rear panel

• Factory fitted (order with rack)

- P.RP.20 20U vented steel rear panel
  - P.RP.24 24U vented steel rear panel

### ADJUSTABLE FEET - P.AF ADJUSTABLE FEET FOR ALL P SERIES RACKS

### CHASSIS SUPPORTS - P.CS CHASSIS SUPPORTS (PAIR)

#### FAN KIT - P.FK.2 TWIN FAN UNIT FOR P SERIES RACKS

### CASTORS - P.CAS,MD MEDIUM/HEAVY DUTY CASTOR SET

## 19" rack - wall mount

#### **M SERIES**



- Leightweight construction and innovative wall hinge (option) make this pre-built wall racking system ideal for audio/visual CCTV and security installations where floor space is at a premium. Heights available from 6 to 15U glazed door included.
- High quality welded steel construction • Two tone grey powder coated finish
- Lockable alazed acrylic door included (inc 2 x keys)
- Fully adjustable racking mounts Gland plate entry top and bottom
- Ventilation slots top and bottom of side panels • Optional hinged wall frame for easy access (order with rack)
- M.06GD 6U wall-mount rack with glazed door
- M.12GD 12U wall-mount rack with glazed door
- M.WF.066U wall frame for M Series racks
- M.WF.099U wall frame for M Series racks

M.WF.1212U - wall frame for M Series racks

M.09GD 9U - wall-mount rack with glazed door

M.15GD 15U - wall-mount rack with glazed door

- M.WF.1515U wall frame for M Series racks
- M SERIES REAR RACKING extra racking can be fitted at the rear of the cabinet to support shelves and equipment.
- M.RU.06 6U REAR RACKING STRIPS

- M.RU.12 12U REAR RACKING STRIPS
- M.RU.09 9U REAR RACKING STRIPS
- M.RU.15 15U REAR RACKING STRIPS
- For all cable trunking, fan kits, socket strips etc please call for quotation!

## accessories - microphone stands

#### **COMMERCIAL AUDIO CAS026**



Microphone stand with boom arm.

- Sturdy tripod base
- Height adjustable between 0.95m and 1.6m
- Adjustable boom arm (810mm long)
- Supplied with microphone holder thread adaptor

#### **COMMERCIAL AUDIO CAS018**



Short desk mount microphone stand

- Sturdy yet compact 100mm cast iron base black
- Rubber feet
- 60mm chrome stem
- Standard 5/8 thread

#### **COMMERCIAL AUDIO MS66**

Heavy duty cast iron base mic stand.

- Sturdy cast iron base 250mm in black
- Telescopic stem with simple grip height adjuster
- · Chrome finish stem
- Standard 5/8 thread

#### **COMMERCIAL AUDIO CAS336**



Desk mount microphone stand with boom arm

- Sturdy vet compact 150mm cast iron base
- Telescopic stem with simple grip height adjuster
- 320mm 460mm height
- Fully adjustable boom arm max 470mm Supplied with microphone holder thread adaptor
- · Chrome and black finish

#### **COMMERCIAL AUDIO CAS079**



Compact telescopic desk-mount stand.

- Sturdy yet compact 100mm cast iron base black
- Telescopic stem with simple grip height adjuster
- 230mm 380mm height
- Standard 5/8 thread

## accessories - loudspeaker brackets

#### **COMMERCIAL AUDIO TTL1**



TTL1- Economical wall-mount brackets for loudspeakers

- Two piece mild steel bracket in black
- Fully adjustable with lock nut
- 5kg max load
- Supplied as a pair

#### **COMMERCIAL AUDIO CAS095**



CAS095- Wall-mounting 'Top-Hat' mount speaker bracket

- Mild steel construction in black
- 45° vertical adjustment with lockout nut
- For speaker cabinets with 'Top-hat' mount
- 25ka max load
- Supplied individually

#### **COMMERCIAL AUDIO CAS0015**



CAS015 - High quality adjustable speaker brackets



- High quality steel construction in black
- · For wall or ceiling mount Multi-directional ball joint mount
- Safety cable
- 5kg max load

### **COMMERCIAL AUDIO WBSI30**



WBSI30 – Wall-mounting bracket for Sennheiser Infra-red radiators.

- Sturdy mild steel universal mounting bracket in black Designed for direct mount of SZI1015/SZI1015T radiators
- Accepts IZK20 mounting clamp for \$130 and \$Z130
- Comes with 3/8th x 1/2 threaded bolt
- Supplied individually

## accessories - connection cables

#### **COMMERCIAL AUDIO CASO03**



CAS003 - High quality 1.5metre XLR plug to XLR Socket

- Super low noise cable
- 2 core 7mm dia. screened • Highly flexible and durable

#### **COMMERCIAL AUDIO CAS025**



CAS025 - High quality 6metre XLR plug to XLR Socket

- Super low noise cable
- 2 core 7mm dia. screened · Highly flexible and durable

#### **COMMERCIAL AUDIO CAS452**



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CAS452 – High quality 6metre XLR plug to 6.3mm mono jack plug.

- Super low noise cable
- 2 core 7mm dia, screened
- · Highly flexible and durable

#### **COMMERCIAL AUDIO CAS015**



CAS015 - High quality 3metre XLR plug to XLR Socket

- Super low noise cable
- 2 core 7mm dia. screened • Highly flexible and durable



CAS239 - High quality 12metre XLR plug to XLR Socket

Super low noise cable

**COMMERCIAL AUDIO CAS239** 

- 2 core 7mm dia. screened
- Highly flexible and durable

#### **COMMERCIAL AUDIO CAS475**



CAS475 – 4 core Neutrik Speakon® connector lead 5 metre.

- Professional speaker lead fitted with 4 pole (NL4FC) connectors
- 4 core cable (4 x 1.5mmsq conductors)
- Optimal performance
- sales@commercialaudiosolutions.com

Original Neutrik ® Connectors

## accessories - connection cables

#### **COMMERCIAL AUDIO CAS478**



CAS478 - 4 core Neutrik Speakon ® connector lead 10

- Professional speaker lead fitted with 4 pole(NL4FC)
- Original Neutrik ® Connectors
- 4 core cable (4 x 1.5mmsq conductors) Optimal performance

## **COMMERCIAL AUDIO CAS481**



CAS481 – 4 core Neutrik Speakon ® connector lead 15 metre.

- 15 metre cable
  - Professional speaker lead fitted with 4 pole(NL4FC)
  - Original Neutrik ® Connectors
  - 4 core cable (4 x 1.5mmsq conductors)
  - Optimal performance

## accessories - loudspeaker cable

#### **COMMERCIAL AUDIO CAS422**



CAS422 - Standard figure 8 loudspeaker cable.

- 0.75mm<sup>2</sup> 2 x core cable
  - Polarity line indicator Current 6A max
  - 2.5mm x 5.0mm cable thickness
  - 100 metre drum

#### **COMMERCIAL AUDIO CAS696**



- 2.5mm² 2 x core cable Polarity line indicator Current 25A max
- CAS696 Heavy duty figure 8 loudspeaker cable
- 4.0mm x 8.0mm cable thickness • 100metre drum

#### **COMMERCIAL AUDIO CAS513**



CAS513 – Heavy duty figure 8 loudspeaker cable

- 1.32mm<sup>2</sup> 2 x core cable
- Current 15A max
- 3.0mm x 6.0mm cable thickness • 100 metre drum

## accessories - microphone cable

#### **COMMERCIAL AUDIO CAS680**



CAS680 - Screened microphone cable

- High quality individually screened cable
- 2 x 0.16mm core oxygen free conductors Red and black core sheathes

100 metre drum

- Flexible PVC overall sheath in black

# accessories - cable for induction loops

## **CAS850 -** 4 core cable for outreach plates



- Ideal for connecting Signet outreach plate systems
- 2 x twisted pairs
- Colour coded cores
- White flexible sheath 100 metre drum

#### Loop4/W - induction loop cable

Flat2005 - flat copper loop cable



100m drum of 2.5mm<sup>2</sup> 32 strand loop cable

• 100 metre reel 1 0mm<sup>2</sup> insulated copper foil tape

### Flat1005 - flat copper loop cable

LOOP3/W - induction loop cable



• 100 metre reel 0 5mm<sup>2</sup> insulated copper foil tape

• 100m drum of 1.5mm<sup>2</sup> 32 strand loop cable

Flat3005 - flat copper loop cable



- 100 metre reel 1 5mm<sup>2</sup> insulated copper foil tape.
- Ideal for use under carpets.

Ideal for use under carpets



www.commercialaudiosolutions.com

Ideal for use under carpets

## **accessories** - connectors

#### COMMERCIAL AUDIO CAS413



CAS413 - Neutrik® NL2FX 2 pole speakon connector.

- High quality 2 pole cable connection
- Integral cable reduction for 6-10mm cable

#### **COMMERCIAL AUDIO CAS569**



CAS569 - Neutrik® 3 pin XLR plug.

- · High quality Neutrik® connector Strain relief and cable protection
- Accepts cable up to 8mm

#### **COMMERCIAL AUDIO CAS627**



CAS627 - 3 pin XLR plug.

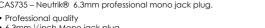
- High quality connector
- Strain relief and cable protection
- Accepts cable up to 8mm

#### **COMMERCIAL AUDIO CAS735**



CAS735 - Neutrik® 6.3mm professional mono jack plug.

- 6.3mm ¼inch Mono jack plug
  All metal construction



- Cable restrainer

## accessories - volume controls

#### **CES AUDIO ATT1001PS**



- Unique Low-profile design
- Hardware free fascia
- 12 position (inc. o□) Smooth Click rotary switch with 360 degree operation
- 100 watt 100 volt line
- Flush mount or surface mount via supplied back box High quality auto transformer for excellent frequency
- response low insertion loss and reliability

  Priority relay bypasses attenuator in emergency or
- priority paging announcements
- High Impact ABS self extinguishing UL94V0 construction White (RAL 9016)

#### **COMMERCIAL AUDIO ATT10**



- Attenuation in 10 steps (from 0dB to -33dB position 0
- 100V line audio transformer
- Flush mounting

is OFF

- Standard single gang electrical faceplate
- Optional surface mount housing ATT200 see below

#### **COMMERCIAL AUDIO ATT50**



- 50 watt 100v line flush mount volume control
- Attenuation in 10 steps (from 0dB to -33dB position 0 is OFF
- 100V line audio transformer
- Flush mounting
- Standard single gang electrical faceplate
- Optional surface mount housing ATT200 see below

#### **APART E-MODON**

surface mount white plastic back box for E-VOL100 volume control.

#### **APART 19-VOL650**



- 6 x 50 watt 100v line
- 24v priority relay
- step by step attenuation 11 steps + zero position

# **COMMERCIAL AUDIO CAS417**



CAS417 - Neutrik® NL4FX 4 pole speakon connector

- High quality 4 pole cable connection
- Integral cable reduction for 6-10mm cable

#### **COMMERCIAL AUDIO CAS122**



CAS122 - Neutrik® 3 pin XLR socket

- · High quality Neutrik® connector
- Strain relief and cable protection
- Accepts cable up to 8mm

#### **COMMERCIAL AUDIO AS657**



CAS657 - 3 pin XLR socket.

- High quality connector
- Strain relief and cable protection
- Accepts cable up to 8mm

#### **COMMERCIAL AUDIO CAS254**



CAS735 - Neutrik® 6.3mm professional stereo jack plug

- Professional quality
- 6.3mm 1/4inch Stereo jack plug
- All metal construction



- Unique Low-profile design
- Hardware free fascia
- 12 position (inc. o□) Smooth Click rotary switch with 360 degree operation
- 20 watt 100 volt line
- Flush mount or surface mount via supplied back box High quality auto transformer for excellent frequency
- response low insertion loss and reliability Priority relay bypasses attenuator in emergency or
- priority paging announcements
- High Impact ABS self extinguishing UL94V0 construction
- White (RAL 9016)

#### **COMMERCIAL AUDIO ATT25**



- 25 watt 100v line flush mount volume control Attenuation in 10 steps (from 0dB to -33dB position 0 is OFF)
- 100V line audio transformer
- · Flush mounting
- Standard single gang electrical faceplate
- Optional surface mount housing ATT200 see below

#### **APART E-VOL100**



- 100 watt 100v line
- 24V priority relay
- Standard single gang electrical faceplate
   Optional Build-on box : E-MODON
- Dimensions (H x W x D) : 80 x 80 x 75 mm

### **APART ATT200**

plastic, surface mount back box for ATT10, 25 & 50.

### **APART 19-VOL6100**



- 6 x 100 watt 100v line
- 24v priority relay
- step by step attenuation 11 steps + zero position

## a telephone system

PAM10 - telephone interface



- A Passive interface unit designed to allow connection to
- BT approved
- For use with 600ohm telephone system output
- Passive device
- ABS Enclosure120 x 65 x 40mm (WxHxD) • Weight 0.5kg

### **BALDWIN BOXALL BT8 -** 8 zone phone extension interface



As BT5 system but with a 'store and forward' facility and 8 paging zone capability. In store and forward mode the user has the facility to record a message digitally then release it to the PA system when the handset is replaced or when a designated button is pressed. Zoning is via 8 separate contacts accessed again via designated telephone button.

- BT Approved
- Metal housing
   Mic or line output
- 8 x zone selection outputs
  Store and forward facility
- · Option for chime (MIM33 chime board)
- 269 x 122 x 72mm (WxHxD)

### TU16 - 16 event 5 channel timer unit



Versatile 24 hour or 7 day 5 channel timer unit for controlling external equipment via five individually addressable relay outputs

- 16 events per day 112 events per week
- 5 separate programmable outputs
  Latched or pulsed outputs
- Active output indication 40 year memory
- 230VAC/24vDC operation
- Illuminated display Anti-tamper key programming security
- Tough metal case
- 183 x 123 x 60mm (WxHxD) • Weight 1.2kg

## **ELM1** - 100 volt line speaker system checker



- Simple to use No calculations required/ reads directly in watts
   Reduces costly time consuming failures
- 9V PP3 battery required • +- 5% accuracy
- 75 x 140 x 40mm (WxHxD) • Weight 0.5kg

### **BALDWIN BOXALL BT5** - telephone interface



Free standing self-powered telephone interface. Allows connection of a telephone system to a public address system via a conventional two wire telephone extension socket. The BT5 detects the ringing current then allows the user to broadcast the message.

- BT Approved
- Metal housing
- Mic or line output
- Option for chime (MIM33 chime board)

accessories - install essentials

- 270 x 122 x 70mm (WxHxD)
- Weight 0.75kg

#### TPG5 - tone generator



Versatile tone generating unit which will operate wit most amplifiers. Operated by dry contact enclosures giving a line level output. 4 tone (whoop Twin tone GMT pips

- 4 preset tones
- 4 selectable chimes
- Contact closure activated
- Line level output
- Weight 1.2kg

### **BOSCH PLN-6WTM**



The Plena Weekly Timer is an accurate timer for use in shopping malls and all other venues that need regularly timed messages signals or other controls. It is ideally

- 14 Chimes
- Six contact outputs
- BGM level control
- Unit can be programmed standalone or via PC
- Ideal partner for Plena Message Manager or Plena Voice Alarm for timed messages
- 440 x 312 x 48mm (WxDxH) • 1U high 19 rack-mountable



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- impedances including long cable runs

  Battery operated for easy mobility up to 60 hours usage
- Oscillator generated 1kHz frequency • 5 to 100kOhm range · Complete with case and test leads

Continuous tone) 4 chime options via internal jumper.

- 230vAC and 24DC operation • 180 x 120 x 50mm (WxHxD)

public address systems. It is ideally suited for schools suited for connection to the Plena Message Manager and Voice Alarm

- Two weekly programs
- Automatic summer winter time
- Hold and pause function

### Weight 3kg



For easy and exact measurement of speaker

## accessories - noise control equipment

#### FORMULASOUND SENTRY



With strict noise regulations in force today no-one can afford to contravene the noise levels laid down by the local governing body

The Sentry works in conjunction with a relay or contactor and usually controls mains power. But the Sentry is not limited to this function any function that can be controlled by a relay or switch can be controlled by the Sentry.

The Sentry has been designed to help solve some of the environmental noise problems encountered in entertainment venues and working areas.

The Sentry has connectors provided to interface with a range of equipment plus internally selectable options to make the system as versatile as possible.

Although its main application is to control mains power outlets in entertainment venues it is not restricted to this application. Basically any function that can be controlled by a relay or switch can be controlled by the Sentry. These may include disconnecting loudspeakers switching passive attenuators to reduce system volume or acting as the trigger into an active attenuator system. It is microphone driven and has its own microphone built in to minimise tampering.

The Sentry also incorporates the facility to operate at two different sound level thresholds which may be selected manually by a remote key switch or similar or automatically by a time switch (switches not supplied). This allows a venue to operate at different levels at different periods of the day e.g. when near offices or shops.

- New case design provides easier connections via cable entry knock-outs and screw terminals.
- A choice of internal microphone (supplied factory fitted as standard) or external microphone
   Removable cover provides access to all connections and settings. Anti-tamper seals are provided.
- Anti-tamper microphone circuitry is incorporated with a front panel indicator.
   Dual mains voltage operation is standard (internally switchable).
- Provision to connect a security loop is provided. This may be required to detect open doors or windows that would impair the sound proofing of a building etc.

#### **APART AUDIOLOCK**



This automatic decibel level controller makes sure that an adjusted decibel level never can be exceeded. The limiter will be connected between the mixer or pre-amplifier and the power amplifier. If the DJ wants to exceed the maximum adjusted level the Audiolock will automatically and unobstrusively readjust. That makes the Audiolock the DJ-'s choice as the best sounding and the most easy to work with limiter.

On the front panel the green LED will turn into red as soon as the DJ tries to exceed the maximum level. The Audiolock is sabotage proof both

The remote control allows you to adjust the maximum level with the 2-wired VCA control. Nevertheless the maximum level set on the central unit can't be

- System: Automatic Level Controller
   Controls: Maximum input Level (-18dB/+12dB) Gain (-35dB/+6dB)
- Measuring source : Audio Input signal
   Frequency Response : 10 25 kHz
- Signal to Noise Ratio : > 87 dB
- THD : Less than 0.05%
- Inputs : Stereo Balanced XLR (20 Kohm) +27dBv(!) Max input
- Output: Stereo Balanced XLR (100 Ohm)
   Noise Gate Trim: Off / -80 dB to -30 dB
- Remote VCA control: Off / -0 dB range (cabel 2 wire + shield)
   Power adapter 9V AC / 10 VA: 230V
- Dimensions (H x W x D) : 44 x 205 x 185 mm
- Weight (packed): 2 Kg

- 5 numbered sealsRemote control (locked) available LOCK-KEY

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